REPORT

OF THE

SEVENTEENTH INDUSTRIAL EXHIBITION

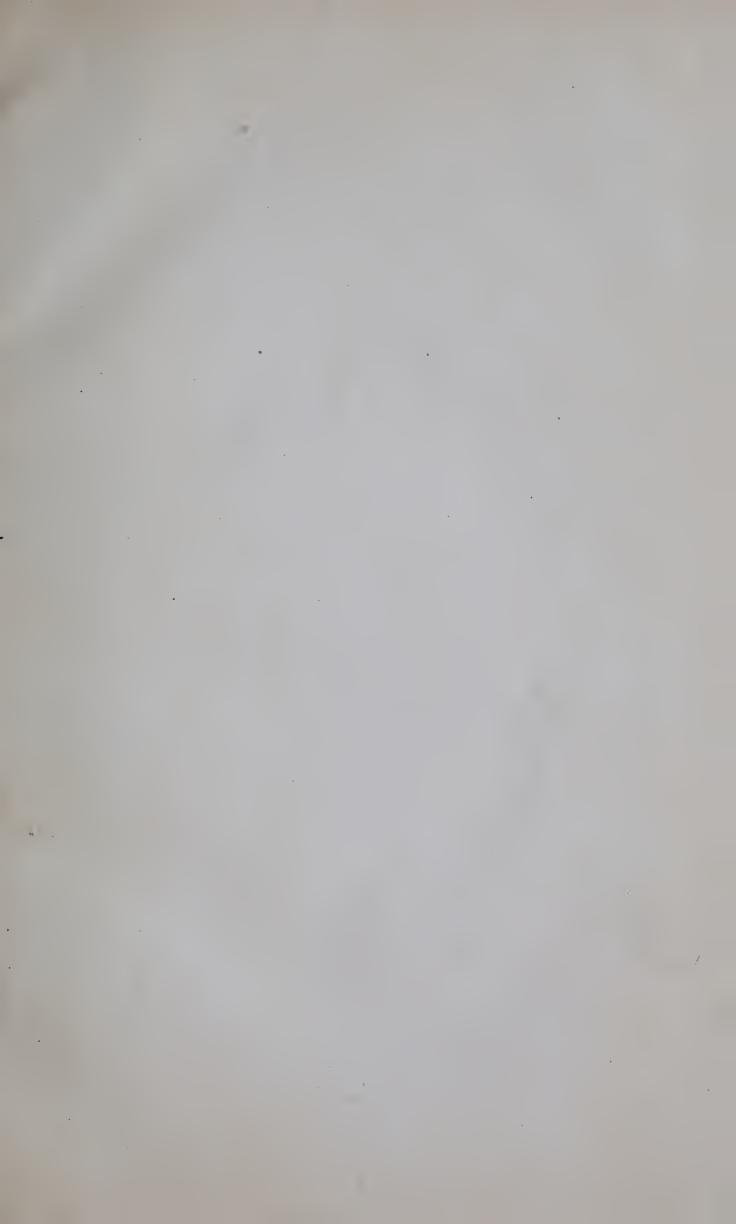
MECHANICS' INSTITUTE,

SAN FRANCISCO.











REPORT

OF THE

SEVENTEENTH

INDUSTRIAL EXHIBITION

OF THE

MECHANICS' INSTITUTE

OF THE

CITY OF SAN FRANCISCO,

Held at the New Mechanics' Pavilion, Cor. of Larkin and Hayes Streets, from the 15th of August to the 23d of September, 1882.

SAN FRANCISCO:
P. J. Thomas, Printer, 505 Clay Street.
1883.

BOARD OF MANAGERS

OF THE

SEVENTEENTH INDUSTRIAL EXHIBITION,

1882.

P. B. CORNWALL, President,	Office Black Diamond Coal Co. S. E. cor. Spear and Folsom sts.
A. W. STARBIRD, Vice-President,	101 Market street
J. A. BAUER, Treasurer,	101 Post street
RICHARD GRAY,	C. P. R. R. Building, Fourth and Townsend streets, Room 22.
C. WATERHOUSE,	- 14, 16, 18 and 20 Beale street
D. A. MACDONALD, -	217 Spear street
A. R. WELLS, - Mechanics'	Mill, cor. Fremont and Mission streets
JAMES SPIERS,	135 Fremont street
DAVID KERR,	49 Beale street
C. F. BASSETT,	304 Davis street
J. R. WILCOX,	Cal. Savings and Loan Society, N. W. cor. Powell and Eddy sts.
GEO. H. HOPPS,	429 Pine street
EDWIN FRETWELL,	218 Fremont street
GEO. SPAULDING, -	414 Clay street
J. H. CULVER, Secretary, -	Office of the Exhibition, 27 Post street
J. H. GILMORE, Superintendent,	27 Post street

STANDING COMMITTEES.

Audiling	WATERHOUSE, KERR, GRAY.
Building W	ELLS, WILCOX, MACDONALD.
Circulars and Classification	BASSETT, STARBIRD, HOPPS.
Printing and Advertising SPAU	LDING, BASSETT, FRETWELL.
Power and Machinery	SPIERS, WELLS, KERR.
Rules, Regulations and Awards	GRAY, STARBIRD, SPIERS.
Tickets and Admissions	FRETWELL, BASSETT, KERR.
Music and Decorations	BAUER, HOPPS, STARBIRD.
Privileges KERR,	WATERHOUSE, MACDONALD.
Location	
PoliceSPAULDI	
Horticulture	
Gas and WaterWI	·
Art	HOPPS, SPAULDING, GRAY.

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REPORT OF THE BOARD OF MANAGERS

OF THE

SEVENTEENTH

INDUSTRIAL EXHIBITION

OF THE

MECHANICS' INSTITUTE, 1882.

To the Board of Trustees of the Mechanics' Institute:

It is with much gratification that we, the Managers of the Seventeenth Industrial Exhibition of your Society, present this report which gives in detail the various items of receipts and expenditures and the transactions of the different Committees of Award, and also of the Standing Committees of the Board.

We received from your honorable body in July last the new Pavilion for the purpose of giving another exhibition of the products of this Coast, which we now return in good condition and well adapted for rental for various purposes during the winter. The financial result, as shown by the report of the Treasurer, is a net gain to the Institute of near \$39,000, an amount greatly in excess of what the most sanguine friends of the Society anticipated. While the articles displayed were varied and excellent, and in some cases exceedingly interesting, showing marked advancement by our State, particularly in the manufacture of iron-working machinery and agricultural implements, yet our Fairs are still far from what we desire, and what they should be, to become, as they ought, "a general and comprehensive exposition of the natural products and manufactured articles of the Pacific Coast."

Next year will probably witness a great influx of visitors from the East to attend the Triennial Conclave of Knights Templar, to be held in this city in August, and it behooves the Institute and our citizens to make the exhibition at that time as full and complete as possible, as at no time for years to come will another such opportunity occur for us to display to visitors of all lands our progress, our capabilities and the great advantage of this State for investment and permanent residence.

TREASURER'S STATEMENT OF TICKETS SOLD, AND RECEIPTS AT THE DOOR.

MECHANICS' INSTITUTE, September 25th, 1882.

To the President and Board of Managers of the Seventeenth Industrial Exhibition:

GENTLEMEN:—I herewith submit my Report of the Receipts at the door, on account of the Seventeenth Industrial Exhibition, showing each class of tickets sold.

1882.	Double Season Tickets.	Single Season Tickets.	CHILDREN'S SEASON TICKETS.	ADULT SINGLE ADMISSION TICKETS,	CHILDREN'S SINGLE ADMISSION TICKETS.	Amount
August 15	419	67	. 97	319	42	\$2,611 50
16	276	67	53	437	40	1,889 00
" 17	282	38	44	889	68	1,951 50
18	241	32	30	806	97	1,773 25
70	359	61	32	2716	525	3,515 25
" 21	$\begin{array}{c} 126 \\ 108 \end{array}$	19 23	5 12	1122 1535	104 134	1,281 50 1,428 00
· · 23	106	10	6	1789	163	1,504 25
" 24	52	18	7	1769	156	1,248 00
" 25	56	5	6	1810	269	1,276 25
" 26	65	12	3	6028	1312	3,707 50
" 28	22		4	1569	146	937 00
29	10	5	1	1804	127	1,000 25
" 30	12	3		1844	131	1,023 75
OT	3	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	••••	1766 1880	$\begin{array}{c} 178 \\ 261 \end{array}$	948 50
September 1	11 7	1	1	5063	$\begin{array}{c} 201 \\ 1214 \end{array}$	1,067 75 2,873 00
66 4	$\overset{\cdot}{2}$		••••	1459	174	783 00
" 5	ī			1644	158	866 50
6	5		2	1959	170	1,050 00
7	2	1		1916	197	1,020 25
	2	1		1921	230	1,031 00
" 9 " 11	• • • • • • • •		• • • • • • •	4541	1024	2,526 50
+4	• • • • • • •	• • • • • • • •	• • • • • • •	1426 1695	171	755 75
" 12	• • • • • • •	• • • • • • • •	• • • • • • •	$\begin{array}{c} 1095 \\ 3215 \end{array}$	215 361	901 25 1,697 75
" 14		• • • • • • • •	• • • • • • •	1920	273	1,028 25
" 15				2056	310	1,105 50
" 16				3119	722	1,740 00
" 18				633	60	331 50
" 19				785	67	409 25
20		• • • • • • •		1299	119	679 25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	• • • • • • •	• • • • • • •		947	109	500 75
44	• • • • • • •	•••••	• • • • • • • •	1334 2796	138	701 50
23				2190	420	1,503 00
	2167	367	303	67611	9885	\$48,667 25
ss Discount on 1 Single S	leason T	icket				1 50

Yours respectfully,

ACCOUNT OF TICKETS SOLD.

						<u>-</u> -				
SEVENTEENTH INDUSTRIAL EXHIBITION 1882.	Double Season \$5 00	SINGLE SEASON \$3 00	CHILD'N'S SEASON \$1 50	APPRENTICES' SEASON \$1 50	ADULT SINGLE ADMISSION 50 cts.	CHILDREN SINGLE ADMISSION 25 cts.	EXCURSION 25 cts.	Excursion 12% cts.	Ам	OUNT.
Ticket Office Outside Sales	2167 984	367 123	303	431	67,611	9885	2548	513	\$49,368 35 5,935 50	
Deduct Commiss	sion an	d Disc	ount						. 183 70	
			DT	OAD.	rmtt	ATIO	N			\$54,854 56
490 303 431 67,611 9,885 2,548	Singl Child Appre Adult Child Excu	e ' lren ' entice ' t Sing ren " rsion 5	son Tic le Adn Fickets	ekets @ " @ " @ nission " @ 25	\$5 00 3 00 3 1 50 1 50 Ticke	ts @ 50	0 cts	• • • • • • •	.33,805 50 . 2,471 25	
$\mathbf{D}_{\mathbf{E}}$	DUCT-	Comm	ission	, Disco	unt an	d Bene	efit	• • • • • •	\$55,303 85 449 29	
	Net	Recei	ipts fro	m Sale	of Ti	ckets		•••••		\$54,854 56
			Resp	ectfull	ly subr	nitted,				
					C. I	WIN FI F. BASS VID KI	SETT,	ELL,)	Ticket Co	mmittee,

FINANCIAL REPORT.

REPORT OF THE FINANCE COMMITTEE.

EXPENDITURES.

Advertising—Abend Post\$	14	00
Advance		00
Alta	_	7 5
Argonaut		00
Breeder and Sportsman		00
·		00
Brown, David, sundry papers Boys' Journal		00
· ·		70
Bulletin (Daily).		00
Bulletin (Weekly)		50
Call (Daily)		50
Call (Washin)		
California Languard		00
California Journal.		00
California Demokrat		00
California Grocer		00
Chronicle, S. F. (Daily)		75
Chronicle, S. F. (Weekly)	_	00
City Argus		00
Cheever, S. G., sundry papers		00
Commercial Ledger		00
Courier de San Francisco		00
Country Merchant		00
Daily Exchange		00
Daily Report		.00
Dramatic Brevities		00
Dunphy & Co., Bill Posting	105	
Elevator		00
Evening Post		00
Examiner	90	
Fair Daily	150	
Fischer & Co	_	00
Figaro	10	
Footlight		00
Fraternal Index	18	
Golden Gate	4	00
Hayes Valley Advertiser		00
Hebrew Observer	8	00
Hotel Gazette,		00
Humorist	_	00
Jewish Times		00
Jewish Progress	_	00
Journal of Commerce	19	00
$Carried\ forward\dots \ \dots \ \$1,$	075	20
Own was jor ward	310	40

Brought forward \$1	1,075	20		
L. Elveza.	4 .			
Law Journal	10	00		
Merchant	6	00		
Monitor	4	00		
News Letter	10	00		
Newspaper Union	8	00		
Pacific Churchman	3	00		
Pacific School Journal	4	00		
Pacific Pilot	3	00		
People's Guide	5	00		
Postal Index	5	00		
Public Opinion	5	00		
Resources of California	10	00		
Rural Press	12	00		
Sanderson, P	20	00		
Scientific Press	12	0 0		
Spirit of the Times	10			
Watchman	6			
Wine Journal	4 (00 		
		4	\$1,216	20
ART DEPARTMENT—Briderson, W., cartage and labor\$	5 9	25		
Burkhardt, M., repairs	1 -	50		
Cohen, H., cartage and labor	39 (00		
Davis, J. H., labor	7 (00		
Gump, S. & G., repairs to frame	7	00		
Helmken & Co., hardware	7 9	90		
Hoff & Preble, horse hire	6 (00		
Hughes, J., labor	4 (00		
Hutchinson & Mann, insurance on pictures	97	5 0		
Jorgensen, C., labor	5 (00		
Mongeoghainear, Paul, labor	30 9	25		
Stanton, A., labor	15 (00		
Vanni, N., labor	17 5	50		
			\$296	90
DECORATION—Salaries to decorators\$	27 (00		
Strauss, Levi & Co., cloth	91 (
			\$118	05
E-man Col Electric W. L.		00	Ψ110	UU
Expense—Cal. Electric Works, repairs to gong\$	3 9			
Carpenter work, mechanics and laborers	476			
Christiansen, injury to boy	275			
Crocker, H. S. & Co., ticket punches	14 (00		
Carried forward\$	769	58		

FINANCIAL REPORT.

Brought forward\$	769	58		
Corbett, P. J., horse hire	4	. 00		
Dampf, Louis, broken frame	4	: 00		
Enterprise Mill, lumber and mill-work	87	45		
Figer Bros., brooms and dusters	15	00		
Fuller, Geo. H. & Co., chairs	14	00		
Gas Fitting, gasfitters, plumbers and laborers.	275	87		
Hopps & Sons, painting	54	00		
Hughson, Geo. J., sprinkling streets	49	50		
Iredale, A. S., cups and sprinklers	3	00		
Joost Bros., hardware	9	95		
Josselyn & Co., ensigns	4 4	20		
Miller, J. M., rent of show cases	24	75		
Montague, W. W. & Co., cups	2	25		
Neville & Co., repairing flags	9	00		
Pacific Bell Telephone Co	35	90		
Parkhurst, S. W., scales	35	7 0		
Secretary, petty expenses	188	67		
Starbird & Goldstone, lumber	304	67		
Superintendent, petty expenses	5 8	50		
Tweedale, T. S., janitors' expenses	3 0	7 0		
Wells, Russell & Co., lumber and mill-work	29	08		
Wilson, Horace, cartage		50		
_			\$2,050	97
Hoperson Drawn March E.			Ψ2,000	41
HORTICULTURAL DEPARTMENT—Meyer, E., plants for	15	00		
decorating\$		00		
Pouyal, A., plants and trees		00		
Saywell, Thomas, plants and flowers	39			
Woodward's Gardens, foliage, plants and ferns		00		
			\$84	00
LIGHTING—California Electric Light Co	156	00		
\$1 80	423	45		
Liddle & Kaeding, bamboo poles		5 0		
Whittier, Fuller & Co., alcohol	12			
Yates & Co., alcohol	12			
		_		
			\$1,606	45
Machinery—Allen, C. R., coal and screenings\$	423	30		
Black Diamond Coal Co., coal and screenings.	134	05		
Dunham, Carrigan & Co., engineers' supplies	18	18		
Goodyear Rubber Co., belting	32	04		
			\$616	55

•			4	
Music -Schultz & Ballenberg, music 35 days			\$2,756	00
PREMIUMS—Britton & Rey, design and 200 diplomas\$	100	00		
Cash awards for flowers	330			
Cash awards for fruit		00		
Cash awards for paintings				
	250			
Kuner, A., engraving die for medal	$\frac{250}{102}$			
Muhs, A., 240 boxes for medals				
Thors, S., filling out diplomas	24	5 0		
Wenzel, Rothchild & Hadenfelt, new design, 29				
gold, 136 silver, 82 bronze medals, and en-	046	00		
$\operatorname{graving\ same}$	1,015	30		
			\$3,896	80
Printing—Allen, S. K., numbers for hat-room	5	00		
Bartling & Kimball, order books		50		
Barry, Baird & Co., notices, cards, etc		50		
Britton & Rey, envelopes		00		
Crocker, H. S. & Co., identifying tickets	300			
		75		
Cubery & Co., circulars, etc		00		
Eastman, Frank & Co				
Francis & Valentine, posters and show cards	116			
Germain, D., tickets, cards, etc		50		
Gordon, C. W., applications for space		50		
Murdock, C. A. & Co., premium list and tickets	133			
Oliver, H., autographs and cut of pavilion		75		
Painter & Co., electrotypes		25		
Sterrett, B. F., season checks, etc	113			
Thomas, P. J., blank books, etc		50		
Thomas, P. J., 1,000 Reports 17th Exhibition	280	00		
			\$1,210	15
Salaries—Salary of Superintendent, Secretary, janitor,				
engineer, clerks and watchmen			\$7,086	35
STATIONERY—Bancroft, A. L. & Co., stationery	26	58		
Cunningham, Curtiss & Welch, rubber bands, etc		50		
Langley, H. G., Directory	5	00		
Secretary, petty expenses	35	00		
Wilson, H., stamps and envelopes		95		
			Ф140	02
Winner Continue Valle Wall Wall of the Continue Valle Wall			\$148	UJ
WATER—Spring Valley Water Works, water five and five-			dh M o c	
sixths weeks			\$583	35
	•		\$21,669	10

FINANCIAL REPORT.

RECAPITULATION OF EXPENSES.

Advertising	20
Art Department 296	
Decorations 118 (05
Expense 2,050	27
Horticultural Department 84 (00
Lighting	45
Machinery	55
Music 2,756 (00
Premiums	80
Printing 1,210	15
Salaries 7,086	35
Stationery	93
Water	35
	—
	\$21,669 10
PROFIT AND LOSS.	
REVENUE—Sale of tickets \$54,854	56
Sale of privileges 5,503	
Sale of Catalogues 123	9 0
Gas and water pipe to exhibitors 117	50
	\$60,599 82
EXPENDITURES—As above	10
Transferred to the Mechanics' Institute 38,930	72
	\$60,599 82

Respectfully submitted,

COLUMBUS WATERHOUSE, DAVID KERR, RICHARD GRAY,

FINANCE COMMITTEE.

PRELIMINARY ANNOUNCEMENT.

THE following preliminary announcement prepared by the Committee on Circulars was issued in May and generally distributed in the city, and throughout the State:

Seventeenth Industrial Exhibition

OF THE

MECHANICS' INSTITUTE.

The Board of Managers take pleasure in announcing that the Seventeenth Industrial Exhibition of the Mechanics' Institute of San Francisco, Cal., will be held this year, commencing Tuesday, August 15th, and closing Saturday, September 16th, in the large and beautiful Pavilion now being erected on the block recently purchased for that purpose, and bounded by Larkin, Hayes, Polk and Grove streets, which is centrally located and easily accessible by the principal lines of street cars.

The advantages of Fairs to communities, and to the welfare of a State, are now unquestioned, and nowhere do they promise more than in our State of California, where so much may be accomplished for good by the display of the products of our soil, our manufactures, and the dissemination of correct infor-The eyes and hearts of thousands of our fellow-men to the eastward are longing for the west, and here at these exhibitions they naturally come or send for information as to our resources and their chance of advancement, and every one who places on exhibition specimens of his or her handiwork, does that which will tend to permanently establish beneath our genial skies an industrious, enlightened and prosperous population, increasing the demand for all articles of consumption, besides exciting emulation, extending practical knowledge, suggesting ideas to ingenious minds, stimulating talent and extending reliable information regarding our State. With these facts in view, the management most earnestly desire and hope that the inauguration of their new Exhibition Building will witness the most comprehensive display in our products and manufactures that has yet been seen, and respectfully solicit the products of every department of industry, works of art of every variety, specimens of ingenuity and skill, rare and valuable curiosities, implements of agriculture and mining, the beautiful handiwork of women, the products of the forge, the workshop, the quarry and the mine, the field, the hot-house, the orchard, the vineyard, the garden—in short, whatever nature or art can contribute, curiosity discover, or ingenuity devise.

The co-operation of all classes is requested to make this exhibition worthy of this State and the age we live in.

The plan of the New Pavilion is a rectangle, $412\frac{1}{2}$ feet long by 220 feet wide, with Central Nave the entire length of the building, spanned by 21 arches, 87 feet from floor to apex, with a wing on either side two stories in height and 50 feet wide.

A spacious promenade gallery on the second floor will be accessible by easy stairs and a powerful elevator, and the whole building will be arranged in the best possible manner to display the articles received. An Art Gallery 300 feet long, with the most improved system of lighting by day or night; an Exotic Garden 300 feet long, covered with glass, and perfectly ventilated; a Machinery Hall 80x200 feet, with a solid foundation, powerful engine, two lines of shafting, well supplied with pulleys of various diameters, are a part of the conveniences now being prepared for exhibitors. In addition to gas, the electric light will be used to illuminate every part of the building at night.

Power, steam and water, in reasonable quantity, will be furnished free.

There will be no charge for space.

An Orchestra of the best Musicians on this Coast will perform each afternoon and evening.

After careful consideration, the Managers have decided to award premiums this year, consisting of Medals and Diplomas, of new artistic design and workmanship, and to that end are now preparing a careful and classified List of Awards or Premium List, which will be published and distributed at an early date, which, with a copy of the rules and regulations, or any further information, can be had or will be sent, on application to the Secretary, 27 Post street.

RULES AND REGULATIONS

OF THE

SEVENTEENTH

INDUSTRIAL EXHIBITION.

RULE I.

The Pavilion will be opened for the reception of goods from and after Tuesday, August 1st.

The exhibition will open to the public on Tuesday, August 15th, and will continue open from day to day (Sundays excepted), from 10 A. M. to 5 P. M., and $7\frac{1}{2}$ to 10 P. M., except Saturdays, when the exhibition will open at 10 A. M. and 7 P. M., and close at 11 P. M., until September 16th.

RULE II.

Articles can be entered for exhibition or competition, as desired.

If entered for competition the articles must be in position and receipted for, and the entry tag attached, not later than Friday, August 18th.

Articles intended by the exhibitor for competition, but not entered and in position by the time specified, to-wit: August 18th, shall not, under any circumstances, be allowed to compete, except when the written consent of all the contesting exhibitors for that premium shall have been filed in the office.

RULE III.

The driving engine will be in operation three days previous to the opening, and exhibitors of Machinery in motion will be required to have their machines in running order on the opening day.

RULE IV.

No charge of any kind will be made to exhibitors for space. Steam and water will be furnished free, in reasonable quantities.

RULE V.

Applications for space can be made at any time, and should be made as early as possible, and at least two weeks previous to the opening of the exhibition.

Blank forms of the applications for space will be furnished by the Secretary.

Space will be awarded as early as practicable (after the application has been received), consistent with the proper arrangement of the goods.

Space allotted to applicants and not taken possession of by the arrival of their goods, or otherwise, on or before Friday, August 12th, may be assigned to other exhibitors.

The Board reserves the right to exclude from the exhibition all things they deem objectionable, as nostrums, articles of an explosive, inflammable, dangerous, or offensive character.

RULE VI.

Exhibitors will receive from the entry clerk, on the arrival of their goods, a receipt for the same, which must be presented for their delivery at the close of the exhibition. Articles entered for exhibition or competition must be so designated in the receipt.

RULE VII.

There shall be three or more jurors in each class.

They will be men wholly disinterested, and possessed of knowledge and experience in the class of articles assigned them.

Articles entered only for exhibition shall be so reported by the jurors, and so appear in the Report of the Exhibition.

Jurors may refuse to award any premium when articles competing are not meritorious.

In every case where the jurors have reached a decision, they shall file with the Secretary a report giving the name of the exhibitors, the articles examined, and the number of the class in which it is entered.

In cases where it is not practicable for jurors to test or examine machines in the building, or where models only are exhibited, they may go outside the buildings to make such examination or test, but the jurors must first procure from the Board of Managers a written consent, which must be attached to their award when filed with the Secretary.

Should any juror, for any reason, before entering upon the examination, or while in progress, become incapacited from serving, the Board shall select another juror.

All awards and recommendations of jurors must be submitted to the Board of Managers, on or before September 2d, and receive their approval before being published.

RULE VIII.

The announcement of awards will be made by the Board of Managers, on Saturday, September 9th.

RULE IX.

Power will be furnished for driving machinery from the main line of the shafting, which is 2 15–16 inches in diameter, and will make about 110 revolutions per minute. Driving pulleys, 30 inches in diameter, will be furnished free to exhibitors. Pulleys for the main line, if furnished by exhibitors, must be accurately balanced, and have the owner's name plainly marked thereon, and should be received and placed in position by Friday, August 11th, as, up to that time, it can be done without unnecessary labor and inconvenience.

RULE X.

No article on exhibition can be removed until the close; but reasonable facilities for making sales of articles, for delivery at the close of the exhibition, will be afforded.

RULE XI.

The most effectual means will be taken, through the agency of the police and otherwise, to guard and protect the property on exhibition; and it will be the purpose of the Managers to return all articles to the owners without loss or injury. Still, all articles deposited will be at the RISK OF THE OWNERS.

RULE XII.

In order to preserve the general harmony of the exhibition, and make the display of goods attractive, the Board reserves the right to direct the general arrangement of the articles on exhibition, and to regulate the dimensions of all signs and advertisements.

RULE XIII.

Employee's tickets found to be unnecessary for the purpose for which they were issued will be forfeited.

Every season ticket will be forfeited, if presented by any other person than the party to whom it was issued.

RULE XIV.

All boxes and packages containing articles for the exhibition should be marked "Seventeenth Industrial Exhibition," San Francisco, with the name and address of the sender. If the freight thereon is paid, it will be taken charge of by the Board, and removed to the Exhibition building. Cartage at the expense of the exhibitor. A detailed statement of the contents of each box or package should be inclosed with the same, or sent separately by mail or express.

The Board of Managers do not consider the premium list herewith appended as complete, nor are articles entitled to premiums limited to the ones here enumerated, but any meritorious article on exhibition not herein mentioned will receive due consideration from the jurors.

THE OPENING EXERCISES.

AT THE NEW PAVILION, TUESDAY, AUGUST 15TH,

It was deemed by the management more fitting and appropriate for the occasion to have the exercises held in the Pavilion than elsewhere, as heretofore, they being in part dedicatory to the new building, as well as inaugurating the Exhibition. To that end the larger room of the Art Gallery was specially prepared by erecting a temporary stage for the Chaplain. Orator and invited guests, and arranging two thousand seats for spectators. The supervision of all matters pertaining to the exercises and general arrangement was in charge of the Committee on Literary Exercises, Messrs. Kerr, Bassett and Spaulding. At 2 o'clock, P. M., the space allowed was filled to the utmost by an appreciative audience, who listened attentively to the end of the following programme:

- 3. Introductory Remarks, By President P. B. Cornwall
- 5. Recitation, Song of the Steam (Geo. W. Cutter).. Miss J. Humphrey Smith

- 8. Pretisssimo Galop, By the Band

Owing to severe illness, the President was obliged to forego the usual inaugural address, being barely able to make a few remarks of welcome and introduce the Chaplain, Reader and Orator.

ORATION BY HON. C. HARTSON.

OUR PROGRESS.

"Great mechanics have done more in the last fifty or sixty years than great politicians, great statesmen or great generals to affect permanently the fortune of nations."—Starr King, 1861.

"We only know that the last half century has witnessed an amazingly accelerated progress in useful discoveries, and that at the present moment Science and Art are acting together with a new companionship, and with the most happy and striking results."—Daniel Webster, 1828.

SCIENCE AND THE MECHANIC ARTS.

The relations between science and the mechanic arts may be compared to the relations between the mind and the body, between steam and the steam engine, or between electricity and the electrical apparatus—both being indispensible for the accomplishment of any useful purpose.

Science and the mechanic arts are so intimately connected and so mutually dependent that they will be treated as identical in purpose and results, and as mutually contributing to the world's development and progress from the earliest ages of recorded time down to the present period.

PRE-ADAMITE EXISTENCE.

THE SPECULATIVE PERIOD.

"The earth was without form and void."

That the earth existed untold ages before the creation of man, and that man was the last in the ascending order of successive beings created on the face of this planet, is a deduction of geological science established by evidence so complete and undeniable as to leave no doubt of its reality. The exact form of its existence is, during some of its periods and to some extent, a matter of conjecture.

some, with much plausibility, maintain the theory that originally the elements of the earth were in a moist, attenuated state, like a cloud, and that gradually under the influence of gravitation, of cohesive force, and of chemical affinity, they assumed the form of a globe; and that at a subsequent period it was in a liquid or molten state, subject to intense heat, and that it has been slowly cooling ever since. When in this condition, all of the waters now forming its rivers, lakes and oceans must have been resolved into steam, encircling the earth, as the atmosphere now does, with one vast cloud of heated vapor, and the time finally arrived in the cooling process when a crust was formed over the molten sphere like ice on water, and that in the course of time the earth's heaving surface acquired greater thickness and solidity, and the surrounding vapor was gradually condensed, forming ponds, rivers and oceans.

Probably during this period of intense chemical action and elemental strife. the wild hurricanes swept through the burning air and seething ocean, the electric shocks rent the clouds and cleft the yielding earth, the burning and belching volcanoes and heaving earthquakes forced from the fiery gulf below the nether substratum to form islands or future continents, with mountain peaks piercing the very skies. The boiling ocean and steamy atmosphere must have caused torrents of rain and prodigious currents, which, like the Niagara, leaping from rocky heights to deep caverns below, disintegrating and wearing away the yet plastic rocks and depositing the debris in lower levels, perchance in the beds of lakes and seas, in successive layers, thus formed what has since become stratified rocks. This incessant action of chemical forces and internal fires, lifting the beds of lakes and oceans, making highlands and mountains, and the constant surging of billows, wearing rocks to dust and soil, prepared the earth for the production and the support of animal life.

THE DEMONSTRATIONS OF GEOLOGY.

During these changes in the condition of the globe, and in witness thereof, vegetable and animal bodies began to appear, first in the sea and afterwards on the land, and continued their appointed periods, perished, and were suc-

ceeded by other higher orders of organized life. Thus, during ages, and cycles of ages, the earth was occupied by successive kinds of animals and plants, some of proportions most minute and others vaster in bulk than any now in existence.

The busy, delving hand of enterprise, earthquakes and volcanic forces have cleft the great body of nature and exposed the contents of the lower strata of rocks, formed at incalculable periods of time before the fiat of man's creation was pronounced by the Great Artificer of the Universe, showing that first in production of organized life, far back in the youth of time, came the reefbuilding corals, the trilobites swimming on their backs, the brilliantly-colored cronoids, the stone-flower, the nautilus, and the cuttlefish, whose remains are found imbedded in the Cambrian strata of rocks, the thickness of which is about five thousand feet. Passing the Silurian strata of about seven thousand feet in thickness—during the formation of which hundreds of animal species filled their appointed time and became extinct—we reach the old red sandstone where appear sharks, rays and a variety of fish. Afterwards, in their order, appear rank and gorgeous vegetable productions, and immense forests, trees of great size and beauty, including the graceful araucaria, from which probably originated the immense beds of coal and deposits of coal oil, afterwards appear reptiles, crocodiles, lizards and frogs of great bulk, insects; quadrupeds—the hyena, bear and tiger—of terrible power and enormous size; also the huge mastodon and the megatherium, a beast of stupendous proportions, and finally, in the long ascending series of generation and as the finishing stroke and culmination of creative power and intelligence, man with his two-fold nature of mind and matter, each part wonderful in the wisdom of construction, and more wonderful in their mysterious union, created by the same Omnipotent Power "that stretched out the north over empty space and. hung the earth on nothing;" the same Jehovah that poises the stars in the firmament, that created our solar system and the stellar universe, that adjusts and controls the complexities of nature's interbalanced terrestial and celestial forces, and that established and maintains equilibrium and harmony throughout the domain of the entire universe.

OUR INEXPERIENCED AND UNTAUGHT PROGENITOR.

In the beginning, the universe in all its vastness and in all its minuteness, with the near and seen and the remote and unseen, was spread out on every hand, and all was new, untried and unknown.

There was much to learn in the sciences of Astronomy, Geology, Physiology, Mechanics and Chemistry, and in all the departments of nature, as well as through the practical lessons taught by observation and experience in real life.

Whether the rain, the clouds, the beautiful rainbow, the changing seasons, the gorgeous array of scintillating and glowing celestial lights, were the results of fortuitous combinations of chance, like the colors of a kaleidoscope, or the works of an intelligent power, indicating order, design and adaptation, was an unsolved problem to the untutored mind of the progenitor of our race.

He had not had any opportunity to learn by experiment, by precept or books, that all of the atoms and bodies of matter wherever located in the

the realms of nature are governed by uniform laws, undeviating order and exact proportions.

The silence and darkness of ancient night brooded over the past. Nothing was then known of the scenes, periods and events of time.

The great progenitor of our race, standing on the line dividing the unknown past from the uncertain and conjectural future, could know little, absolutely nothing, of the elemental strife of the chaotic period, which recent geological researches and discoveries have established with evidence so clear and so conclusive as to amount to demonstration; neither could he, with all of the knowledge then vouchsafed, prognosticate future events, or foretell the changes that time has wrought in the world's history.

PROGRESS OF SCIENCE AND ART.

From the primeval condition of ignorance and dependence, the growth of science and mechanic arts has been slow and beset with difficulties.

Often, erroneous theories and systems have been adopted and incorrect courses have been pursued, and there has been a great struggle through all ages in advancing from the unknown to the established, and from conjecture to demonstration. During the early pupilage of the human race many wild and extravagant opinions were entertained and erroneous practices prevailed. The ancients believed that there were four elements—fire, water, air and earth—and for thousands of years the properties and changes of all bodies were explained on this hypothesis. The doctrine of the transmutation of substances was fully adopted and firmly believed.

ALCHEMY

Preceded Chemistry and formed one page in the world's history. It was associated with Magic, Astrology and various other gross impositions. The elixir of life, the universal solvent, the secret of transmuting baser metals to gold, and the philosopher's stone were the chief objects of search by the Alchemist. Such discoveries were regarded as possible, and it was confidently expected that they would bring in their train boundless wealth, perpetual health, eternal youth and unalloyed happiness.

Experiments, inventions and discoveries in the accomplishment of these illusory objects laid the foundations of modern Chemistry, with all of its contributions to the wealth, health and happiness of mankind.

THE SCIENCE OF CHEMISTRY

Teaches us that all of the changes that take place in bodies when their parts attract or repel, unite or separate, are governed by fixed and unalterable laws, and that although substances may be so united as to change their form, color, density and properties, still nothing is lost. The simple elements may be absolved into compound, the compound may be resolved into simple elements, or unite with other elements and form new bodies; still it is done with absolute precision and regularity, and amid all mutations, the quantity of matter, whether in a liquid, gaseous or solid state, whether combined with the air, ocean or land, remains unchanged and unchangeable.

Rocks, crystals, water, air and all bodies are formed by the union of the elementary particles according to laws the most undeviating, and in proportions mathematically exact.

ELEMENTARY SUBSTANCES.

The entire number of ultimate undecomposable constituents of bodies or matter is estimated by some scientists to be sixty-four.

Although the entire number of elements is so great, yet few--oxygen, hydrogen, nitrogen and carbon, composing the atmosphere, and known as the atmospheric group--are the principal factors in this world's economy. They are the chief constituents of the animal and vegetable world.

And, as from the simple alphabet of letters all words, books and libraries—the storehouses of fact, fiction and song of the world's history and knowledge—are formed, so out of a few elementary substances, by various combinations are formed the lily, the tree, the rock, the land, the air, the ocean, and all bodies on earth; and, so far as we know, throughout universal nature.

TELESCOPIC AND MICROSCOPIC VISION.

Science, exhibiting creation in her most majestic, sublime and magnificent aspects by the aid of telescopic vision, and in her lowliest, most subtile, and most minute parts by the aid of microscopic power, has greatly enlarged the boundaries of knowledge, the field of rational enjoyment, and achieved her proudest laurels.

By the aid of optical instruments—miscroscopic lenses—the blossom that hangs suspended upon a tree has been discovered to have other and higher uses and purposes than to shelter the tender fruit it enfolds.

"Now that blossom is seen to be the base of a vast and complicated system, and carries on its surface, and on every fibre of its surface, the ample habitation of many a living creature. Not that blossom only, but every leaf of the forest, every flower of the field, every spear of grass in the valley and on the mountain top, breathes beneath the miscroscopic lens with animation and teems with life. Other, and still other, and yet other compartments are unfolded, and new races of beings pass before the eye as glasses of greater, and still greater and greater magnifying powers are interposed. Indeed, the farther this downward track to nothingness is traveled, the farther seems to stretch the still untraveled residue.

"No glass has yet been found of power sufficient to reach quite down to non-existence. Not even the nether limit of creation has been fixed. That line is undrawn that marks creation's minimum—Jehovah's ne plus ultra."

From the minute creation, too minute for comprehension, filling the mind with amazement at its myriad infinitesimal organisms, too profound for man to compass, let us turn and consider the wondrous and sublime telescopic revelations embracing our solar system: the sun, with its brilliant retinue of planets, moons and asteroids; and the infinity of fixed stars beyond, of enormous magnitude and of indescribable distances in the vast solitudes of immensity.

Previous to the invention of the telescope, in 1608, about five thousand was the greatest number of stars that could be seen under the most favorable conditions of atmospheric purity. The telescope reveals to mankind from thirty to fifty millions of these beautiful orbs, scattered along the vast spaces of the universe.

The sun, whose volume is more than a million times greater than that of our earth, has, at various distances, revolving about her, in perfect order and with great celerity, nine primary planets with their attendant and ministering satellites or moons.

Mercury, the nearest planet, is forty millions of miles from its flaming centre. Uranus plows the ether seventeen hundred and seventy millions of miles from the common centre; while far outside, in regal state, rides Neptune, with its satellites, moving in indescribable splendor and velocity, twenty-eight hundred and fifty millions of miles from our common sun.

The constant balancing of gravitation and centrifugal forces maintains the movements and preserves the order of this beautiful and sublime system of sun, planets and satellites, each kept in its own orbit and moved on forever in grandeur by Omnipotent Power.

But far more magnificent and marvelous is the stellar universe; with its infinity of fixed stars, more distant, more luminous and grander than our chief orb of day.

Herschel estimated the boundaries of the stellar universe to extend so far in the direction of the Milky Way, that light, traveling with its unsurpassed celerity, would occupy seven thousand years in passing through the space intervening between the earth and the utmost limits discovered by the telescope.

Astronomers assign to the sun an obscure and unimportant place in comparison with the innumerable fixed stars blazing in the firmament.

Said a late author: "There are myriads of stars in space immeasurably greater than it. With all of its retinue of ponderous orbs, it is only one of innumerable hosts of such suns and systems. The stars look very diminutive in comparison with it, but they are hundreds of thousands of times further off. A ball shot from a cannon, and moving at the rate of five hundred miles an hour, could not reach the nearest of these in less than thirteen millions of years. Light is the rapidest of known travellers. A ray from the sun reaches us in about eight and a quarter minutes; but there are some stars in the heavens known to be so remote that if a ray of light had started from them direct for our world when Adam drew his first breath it would hardly yet have Sirius alone gives out nearly four hundred times as much reached the earth. light as the sun, and yet Sirius is a star of moderate size among stars. It takes the earth one year to complete its revolution around the sun, but it takes the sun eighteen millions of years to make its revolution around the center which it obeys."

The magnitudes are too great, the distances stretch out too far on the line of infinity, the heights are too lofty, and the depths too profound, for men to measure or penetrate. We are amazed and overpowered in the contemplation of the vast and complicated system of whirling orbs in the universe.

Within the last three hundred years, by the aid of the telescope, the riches of the astral empire have been revealed and distant lines have been sighted. By the aid of other instruments the boundaries of discovery may be pushed far out on the verge of immensity.

The invention and use of the miscroscope and telescope illustrate the relations between science and art, and show that they are mutually dependent, and walk hand in hand in the paths of useful discovery.

PUBLIC OPINION AND GOVERNMENT.

Public opinion and the principles of government have kept pace with the advancing lights of science and art, and have become more liberal, more tolerant, and more humane.

As ships on the sea are often, for a time, retarded or driven back by adverse currents and contrary winds and waves, so governments are often assailed by interest, passion and ignorance, and the regularity of their movements disturbed and their progress arrested.

The discoveries, advanced state and changed opinion of any age often make the practices and opinions of the preceding seem absurd, preposterous and sometimes cruel.

The criticisms that we make upon the practices of former generations peradventure may be applied by our successors with equal force to opinions and practices of our own age.

We review the history of our own immediate ancestry with mingled feelings of humiliation and grief, exultation and gratitude.

British history reveals the mortifying fact that our own forefathers were a few centuries ago occupants of huts and caves, clothed with skins of wild beasts, and were worshipers of idols.

HERESY AND SORCERY.

Within the last three centuries nearly all Europe has been converted into a field of carnage and slaughter in punishment of misjudged heresy and sorcery. Heresy was adjudged a crime against Church and State, and punished with death by fagot, fire and the stake, and by the cruel inquisition. It is only during the present century that the inquisition has ceased to do its bloody work to suppress freedom of thought and liberty of conscience. History contains the sad statement, that in the district of Jura, in France, one judge sentenced to death six hundred persons on charges of witchcraft and sorcery in the years 1598-9 and 1600. It is less than one hundred years since the Bastile—the fearful and horrible place for the punishment of political offences—was demolished by a suffering and enraged people.

THE CIVIL WAR OF AMERICA.

We cannot forget, even if we would, that in our own times and in our own country we have had a most gigantic and terrific contest for emancipation and liberty—a contest of such intensity and magnitude that we still feel the chill of blood, the paralysis of nerve and blindness of sight arising from the lightnings and thunders of battle, on the issue of which was suspended the destiny of three millions in servitude, and the perpetuation of a system of bondage that flourished during the reign of the Pharaohs, that has been transmitted through

the Grecian, Roman and Anglo-Saxon civilizations and polities down to our time, people and country, which became the renowned theatre of contention between citizens of an illustrious and heroic nation; where the "irrepressible conflict" raged with a violence indicative of the robust constitutions, strong natures and vehement passions of the contestants; and where the adverse and counter currents of interest and ambition, judgment and conscience were so strong and violent as to produce a moral and political cyclone more destructive and more terrible than any yet displayed by the atmospheric forces in the physical world. We are amazed and filled with mortification and grief that there should be such a contest for humanity and constitutional liberty in our age and country.

CONTRAST AND PROGRESS.

But when we remember that the hut has been superceded by works of architecture of the greatest skill, by houses and temples of the highest beauty and the most exquisite workmanship; the skins of wild beasts by cloths of the finest texture; idolatry by the pure and exalted worship of the eternal God; superstitution, intolerance and persecution by the voice of reason, philosophy and toleration; when we remember that in the great contest for human rights the angel of mercy triumphed; that a republican form of government was established; that the seeds of permanent friendship, order and tranquility were planted everywhere; and that universal accord is now assured in the sentiment, "Liberty and Union, one and inseparable, now and forever;" when we remember all of these cheering results and witness the advancing steps of freedom, humanity, justice and charity, we rejoice with great joy.

At no previous period in the world's history could such a fierce contest and the storms of mad war produce such benign and auspicious results.

It was the last great battle between ancient and modern civilization, and its decision has done more to settle the principles of society and government on a permanent basis, and establish equality and harmony among all classes, than any previous act of history.

PROGRESSIVE STEPS IN DISCOVERIES.

The great and important discoveries and inventions are not the work of a single day, nor of one individual alone, but are the products of time and of progressive development. Each generation is indebted, to a large extent, to its predecessor for the facts and principles which ultimate in useful and brilliant discoveries.

The great discoverers and inventors in one age have built upon the foundations laid by others, and have crowned their work.

NEWTON.

Newton, "whose discoveries pour in day upon the works of God as if a second fiat for light had gone forth out of his own mouth," founded the theory of universal gravitation upon principles before established by Kepler; yet much of Kepler's knowledge was derived from the study of the Copernican and Ptolemaic systems.

HERSCHEL.

Herschel is entitled to great honor for the invention of his telescope of wondrous magnifying power; yet, without derogating from his just fame, his-

tory traces the discovery of the telescope, though in an imperfect condition, to Galileo, and from him traces the principles of its construction still further back to three almost unknown competitors for the distinguished honor of original discovery, to Metius, Jansen and Lippersheim.

COLUMBUS.

The discovery of America is due to the enterprise, skill, patience and implicit faith, and even to the temerity of Christopher Columbus. And he is entitled to that honor without abatement or diminution. Yet Paulo Loscanelli, a learned cosmographer of Florence, prepared the map which guided Columbus in his first voyage of discovery. The Northmen visited the northeast coast of America in the tenth century and planted a colony in Greenland, with which they afterwards maintained intercourse.

ROBERT FULTON.

All honor to Robert Fulton, whose steamboat was pronounced a failure in 1803, and in 1807 a success, because its speed was then five miles an hour on the glassy Hudson. Yet James Watt had brought the steam engine to a high state of perfection in England as early as 1775. The power of steam had been known for centuries, and unsuccessful experiments had been made to harness it to machinery, both on land and on water, in regions most remote; but its useful application to lighten labor and facilitate business is of recent date.

The great stars of invention and discovery stand out before the world in grand and striking proportions, like the Mississippi and Amazon rivers; but we know as little of the aids, incentives and inspirations that contributed to their success as we do of the springs, rills and streamlets, that are tributary to those great rivers.

THE PRESENT CENTURY

Has been most fruitful in useful inventions, improvements and discoveries, and the production of mechanical industries is fabulous.

THE STEAMBOAT.

There are those living that saw the first steamer that skipped over the laughing Hudson, now renowned for its floating palaces. In 1819, the first transatlantic steam line was established between Savannah, Georgia, and England. This line had one small steamer named "Savannah" that made its first trip from Savannah in 1819. Now all of the wharves of our great cities are lined, and all of our bays, lakes, rivers and oceans are dotted with steam crafts bearing the commodities and commerce of all zones.

THE LOCOMOTIVE.

Steam wagons preceded the railway locomotive. In 1770, Cugnot, a Frenchman, constructed a steam wagon for use on common roads. Robert Watt, of England, patented a road engine in 1784. In 1787, Oliver Evans obtained from Maryland the exclusive right to propel wagons by steam in that State.

The first high pressure locomotive was built in England in 1802, and the second in 1804. George Stevenson, of England, in 1814, constructed the first locomotive that attained a speed of six miles per hour.

The first section of the great commercial highway now known as the Baltimore and Ohio Railroad, was begun July 4, 1828, and was at first operated by horses.

The first locomotive constructed in the United States was built by the well-known Peter Cooper, in Baltimore, in 1830. Two years previously there had been a shipment of a limited number of locomotives from England. When we survey the map of the United States, with its network of railroads stocked with cars and engines and bearing the inhabitants and commodities of all climes onward swiftly to their destination, and consider that all of these mechanical energies are the production of the last half century, we are not only amazed, but distrust both our eyes and history.

THE TELEGRAPH

Has become one of the most useful and important factors in business. The almost instantaneous transmission of intelligence from continent to continent and from pole to pole has contributed greatly to equalize, harmonize and civilize mankind.

In 1844, Professor Morse constructed the first telegraph line in the United States between Baltimore and Washington. Cyrus W. Field connected America with Europe by a submarine telegraph laid across the Atlantic, August 5, 1858. Since, two hundred cables have been laid, with a length of fifty thousand miles.

In less than forty years telegraph lines have been extended with their myriad arms streaming with lightning all over the habitable globe, and made continents vocal with their magical power.

THE TELEPHONE

Is an instrument of recent invention. Professor Reuss, of Germany, has the honor of first discovering this new agency in the year 1865. Afterwards, Professor Gray devised the harmonic telephone. The speaking telephone was subsequently produced by Mr. Bell of Massachusetts. Mr. Edison has devised a telephone that transmits vocal sounds over long distances with great distinctness. This system of transmitting sound is now in its infancy, and no one may anticipate the rich results of full developement.

THE ELECTRIC LIGHT

Is a new agency for illumination of so much power and brilliancy as to emulate the sun in the intensity of its brightness. Faraday, an English scientist, discovered this method of illumination in 1832. The announcement of this discovery at once attracted others to this new field of enterprise. As old miners seek the spot in haste where new and rich lodes are reported, and eagerly prospect for greater developments, so electricians and scientists sought for both fame and fortune in this new and glittering field of attraction.

In this new field of experiment the efforts of the youthful Brush, of Cleveland, have been attended with remarkable success. With this method and apparatus he is providing this city with an agreeable steady light, so intense as to convert the darkness of night into the light of day, and at rates so moderate as to defy competition.

Electricity appears to be the great reserved force of nature to supply mankind with light, heat and power, when nature's other sources of supply are exhausted, and thus to continue the present system in the world's economy.

THE CABLE ROAD

For its convenience, for its celerity of transit, for its cheapness, and for its utter disregard of elevation, deserves special mention.

The beautiful cable-car as it faces the upward grades and steeps, without horses and without any apparent propelling power, begins its course with a gentle movement and then glides majestically up the acclivity, like a phantom, and as if instinct with life.

The result of this achievement is to make accessible otherwise inaccessible parts; to justify the construction of houses and homes and palaces on the highest and loftiest points; to give value to property otherwise valueless, and to add largely to the wealth of individuals, cities and States.

This car, with its grip, slot, brake and revolving cable, was first used on Clay-street hill, in the city of San Francisco, in the year 1873. It is now adopted on five prominent roads in this city, and the fame of its unprecedented success is spreading to distant cities.

The merit of this invention is enhanced here by the consideration that its author is a gentleman well-known and of long residence in this city, and a worthy member of this Institute, and for many years its honored head, A. S. Hallidie, Esq., who has made other discoveries and inventions which give him high rank among inventors and among those who have done signal service to the community and our race.

THE FUTURE.

We have no criterion or rule by which to measure or calculate the possibilities of the future. It is certain that the elements, powers and forces of nature are not fully, nay, only partially revealed. There may be some powers like electricity (whose discovery and application to material uses are recent,) now lying dormant and unknown, the discovery of which hereafter may revolutionize the business and change the current of human affairs.

Every new principle developed, every invention and improvement in art, all advancement in science and philosophy, form the basis, the capital for other and greater and grander achievements and triumphs.

The men of this age are fortunate indeed in holding this advanced position; fortunate indeed in the possession of the vast patrimony of others' experience, knowledge and wealth; in the possession of all of the inventions, and of all of the discoveries, and all of the achievements in labor, learning and thought of all preceding ages.

THE WORKING CAPITAL

Of this age is not limited to gold, silver, stocks, houses, land, books and machinery, nor to any material work of convenience, necessity or luxury, though valued at countless billions; but it includes all systems of ethics, religion, government and philosophy, all generous and patriotic sentiments, all philanthropic and charitable endeavors, all of the strength and sweetness

of friendship and affection, all love of right and justice, all veneration for parents and adoration for God, and all of the skill, talent, high purpose and knowledge, ambition and genius of the human race.

THE ZEAL AND WORKS OF THE MEMBERS OF THE MECHANICS' INSTITUTE.

It is most gratifying to know that the members of this Institute have contributed their share to this working capital, and that they have coöperated with the earnest workers, the wise and illustrious, in the progressive movements of the age.

They have constructed this palatial temple, so spacious, fitting and fascinating; so well adapted to the purpose for which it was designed; so honorable to those who originated and erected it and dedicated it to the arts and sciences, and it is now replete with models of taste, skill, thought and genius.

THE LIBRARY.

They have with great care and judgment selected and purchased more than thirty thousand books for public instruction, entertainment, culture and refinement.

"All that mankind has done, thought, gained or been, is lying, as in magic preservation, in the pages of these books."

"Golden volumes, richest treasures,
Object of delicious pleasures,
You, my eyes rejoicing, please,
You my hands in rapture seize.
Brilliant wits and musing sages,
Lights, who beamed through many ages,
Left, to your conscious leaves, their story
And dared to trust with you their glory."

All are invited to come and drink deep from these fountains of knowledge.

All should patronize this Library for their own pleasure and improvement,
and in recognition of the eminent services of its founders—

"Come, take choice of all my library, And so beguile thy sorrow."

The managers of this Institute have, with great and unrequited labor, bought this costly and valuable block and constructed this enchanting pavilion for the glory and advancement of this metropolis, and to promote the highest interests of all the people of this coast. How difficult, if not impossible, to estimate the advantages and benefits derived from this enterprise!

In this hall are collected rare, beautiful and useful models of painting, sculpture and mechanism, attracting and exciting the curious, stimulating the ingenious and enterprising, and diffusing useful knowledge to all.

The glittering display of associated mental and material wealth in machinery, in speaking statues, in resplendent paintings laughing with life, in combination with the exhibition of light, steam, electricity, sound and motion, make this an attractive spot for students of taste and genius.

The youth will annually come here to witness the marvelous displays of mechanical ingenuity and of the fine arts; manhood for instruction; and decrepit old age to take note of the changes, the new fields explored, the work

accomplished, and to rejoice in the ever-accumulating evidences, here exhibited, of the ingenuity, wisdom and creative power of man.

Beneath the light of this institution, and under the stimulus of its influence new modes of the use and application of Nature's powers have been discovered that have contributed largely to the wealth, power and renown of the Queen City of the Pacific.

Through the benignant influence of this institution, some of the hidden forces of Nature have been revealed and brought into useful activity.

The great poet-philosopher, Pope, thus described Nature when delivered by the Maker to man:

"All nature is but art, unknown to thee:
All chance, direction, which thou canst not see;
All discord, harmony, not understood;
All partial evil, universal good."

As the Parthenon, built under the highest inspiration of the Grecian art, by its great master, Phidias, added largely to the lustre and renown of Athens, and as the Colosseum contributed largely to make Rome illustrious for nearly twenty centuries after the last vestige of her government

"Had gone glimmering through the dream of things that were,"

So the Mechanics' Institute, now in the first period of its existence and usefulness, will contribute to the just fame of San Francisco through coming ages down to the last syllable of recorded time.

This institution is truly one of the great auxiliaries of mechanical power. It is both the duty and interest of the intelligent and enterprising, and of all classes of this city and State, to give this institution a generous support.

Each year, in this Pavilion, are presented new facts, ideas and inventions, from which other ideas and inventions will be evolved, forming links in the great chain of progressive development, beginning with the first ages and extending onward to the close of time.

Through the arduous labors of the founders and supporters of this royal institution, this most magnificent display of chemical agencies, of mechanical energies, of agricultural products and manufactured fabrics, is spread out before our enchanted vision in endless and magnificent profusion.

The scene before us represents the diversity of our interests; the richness and bounty of our teeming productions, the vastness of our population, the culture and refinement of our people, and the magnitude, grandeur and capacity of our city, State, and country.

At seven o'clock in the evening the doors of the Pavilion were thrown open to the public, and, as will be seen by the financial result, was well patronized, and one of the most successful Fairs yet held in this city.

ALPHABETICAL LIST

OF

EXHIBITORS AND ARTICLES EXHIBITED.

[Except those in the Art Gallery, for which see Catalogue following this.]

A

22 Ackerman Bros Bent wood Furniture
21 Adell, W. T
6 Adams & Carter Coleman's Patent Battery
21 Ahlert Bros Monocycle
19 Akstrand, Alexander Display of Newell Posts
40 Allen, Mary EttaDoll Clothes, Quilt and Pillow Shams
18 Ambrun, Fred
32 American Salt Co Los Angeles, Carmen Island and Liverpool Salt,
Crude and Manufactured.
В
40 Baker, Mrs. C
Bailey, Miss Harriet F
29 Balny, A. J Ostrich Feathers
31 Bass, T. J. & CoArtists' Materials
11 Batchelor & Wylie Spring Tooth Harrow and Cultivator
28 Bay City Manufacturing Co Hats and Hat Material
39 Beeman, Wm Trusses and Artificial Limbs
22 Bennett, J. S
14 Benn, J. S Artificial Flies
40 Bennet, Mrs. H. WEmbroidered Fire Screen
12 Betts Spring Co Locomotive, Carriage, Car and Wagon Springs
21 Bilz, J. A Buggies and Jump Carts
14 Blackman, G. V Door Knobs
32 Blumenkron, IsaacAutograph letter of General Washington
21 Bowman, Ed Eureka Dog Carts
18 Boesch, Emile General Display of Reflectors, Lamps, Copper and
Galvanized Iron work

Class.
20 Bonelli, E. S
40 Bowman, Mrs. Agnes
10-24 Bodley, E. C New Victor and Eldrige Sewing Machines and Bost-
wick Floor Sweepers.
6 Bowen, A. C Re-Amalgamator
31 Boericke & Shreck
31 Bowen, P. M Baking Powder "Ladies' Friend"
30 Bosqui, Ed. & Co Chromo-Lithographs
44 Ballinger, Francis
9 Brell, Louis
40 Browne, Mrs. C. B Fire Screen and Quilt
13 Brown, Chas. R. & SonStoves, Ranges, Granite Ware, Cooking
Utensils, etc.
21 Brunswick, The J. M. & Balke CoBilliard Tables, Cushions, Balls,
Cues and Racks.
19 Brehm, R. WWood-Lathe in operation, and Turned Articles
11 Brush, R. G
19 Brush, G. A Oak Graining
25 Bryant, R. P Improved Shoe Button
40 Bryant, Kitty S Bureau Toilet Set and Crocheted Shawl
5 Bridwell, R. F
20 Braendlien & Seibold
31 Brownlie, Mrs. F. C
43 Brewer, George
29 Brown, Mrs. W. C Turner Corset
40 Bulfinch, Mrs. Ed Silk and Patchwork Quilts
21 Buckland, G. GBuggy and Improved Buckboard
35 Burnell, J. H. & Bro Albion Ale and Porter
1-4-11 Bull, Geo. & Co. Straw-burning Engine, Portable Saw Mill, Agricul-
tural Machinery and Implements.
31 Burnett, G. G
11 Butler, W. W Elastic Barbed Fence
18-19 Burr, C. H. & G. WPatent Slop-Hoppers and Weather Strips
\mathbf{C}
31 California Volcanic Water CoVolcanic Water
12 California Iron and Steel Co Pig Iron, Ore and Castings
18 California Brass WorksGeneral display of Brass Goods, Bells, Cast-
ings, Plumbers' Goods, etc.
31 California Powder WorksHercules, Sporting, Blasting and Mining Powder.
38 California Electric Gas Lighting Co System of Gas Lighting
19 California Glass Works Glass Roofing
38 California Electric Light CoBrush Dynamo-Electric Machine

Class.
38 California Electrical Works Edison's Electric Machine for Generating Electric Light and Lamps.
11 California Gate CoModel of Robinson's Patent Automatic Gate
12-24 California Wire WorksIron, Steel, Copper, Tinned and Galvanized Wire; Iron Steel and Galvanized Wire Rope, round and flat; Sash Cord, Wire Cloth and Netting; Coal and Ore Screens, Summer House, Garden Seats, Arches and Ornaments, Bird Cages, Screens, Furniture, etc.
5 Callahan, John
21 Carville Manufacturing Co
1-13-38 Central Gas Light CoGas Heating and Cooking Apparatus, Gas Engines, etc.
40 Cherry, May J
5 Chronicle, S. F Stereotype Plates, illustrating the Process of Stereo-
type Printing.
6 Chipchase, JohnModel of Oscillating Gold Washing Pan
10 Chope, Thomas
33 Ciphers, D. S
31 Climax Washing Powder Co Washing Powder
2 Clot & Meese Steam Pumps
22 Clark, Truman S. & SonWire and Hair Mattresses, Bedding, Iron
Bedsteads, etc.
22 Clark, G. W. & CoGeneral Display of Paper Hangings
40 Clark, Mrs. Sarah Embroidery Pictures
40 Clark, Mrs. Italy
38 Clark, I. POxford Incubator and Artificial Mother
31 Coleman, W. T. & Co
8-25 Cook, H. NLeather Belting, Hose, Buckets, etc.
40 Cook, Emma J
40 Cotter, Mrs. E. J Preserved Natural Flowers
31 Columbia Soap WorksGeneral Display of Staple and Toilet Soaps 98 Connected I. W. Machine made Button Heles
28 Coppage, J. W
44 Cohen, Herman
19 Cousins, Henry
19 Corbett, Mrs. Theresa Ornamental Table Top
31 Cryer, Chas. & Co
33-35 Cutting, J. T. & CoTolu Tonic, Milwaukee Beer, Bitters, Crushed Indian, etc.
9 Cumming, Capt. George Model of Ship made of Ivory and Silver

\mathcal{D}		
Class.		
19 Dampf, Louis		
40 Dallas, Mrs. Amanda		
33 Dawson, Wm. L Preserved Fruits		
'31 Davis & CooperBoot Polish		
2 Darragh, John H Rotary Pump		
13 De Gurre & De Lano Adjustable Grate for Stoves and Ranges		
33 De Long, F Apple Cider and Vinegar		
43 Delabaire, Mme. Cl		
6-37 Denniston, E. G Replated Ware and Silver-Plated Amalgamating		
Plates.		
42 Dills, Mrs. E. C Oil Painting		
24-40 Dietz, Misses E. L. & M. A Dust Pans, Crumb Receiver and Floral		
Sign.		
24 Dilley, J. SCarpet Sweeper		
3-12 Doble, AbnerMiners' and Blacksmiths' Tools, Cast Steel Bars, Drill-		
ing Machine, Tuyeres for Forges, etc.		
6 Dodge, M. B Rock Breaker and Machine Drawings		
27 Doyle, Henry & Co George A. Clark's O. N. T. Spool Cotton		
19 Drew, John R		
4 Driver, John Rotary Morticing Machine and Adjustable Brace		
5-22 Durkee & MooreWire-Coiling Machine for making Mattresses— Wire Mattresses.		
40 Duraind, Mrs. Julia Holbein Embroidery		
*		
${f E}$		
40 Easton, Miss LizzieLace Work		
40 Edgerly, Mrs. S. A		
40 Elder, Mrs. M. I General Display of Fine Embroidery		
45 Elite Photographic Studio Photographs		
22 Erdin, Theodore Kitchen Cabinets		
29 Evertz, J. P List and Rag Carpet		
47 Eveleth & Nash		
The state of the s		
${f F}$		
22 Farrar, B. FMetal Spring Bed-bottoms, Mattresses, Sofa Bed,		
Lounges, etc.		
6 Farwell, W. B		
20 Fay Piano Manufactory Pianos		
40 Favor, Miss May Fancy Needle Work		
40 Federmeyer, L. P		
28 Figel, Joseph		
24 Figer BrosBrushes, Dusters, Carpet-Sweepers and Brooms		
10 Fisher, A. A The American Sewing Machine and Specimens of Work		

Class.	
44 Fletcher, Prof. H	Crayon and Pencil Drawing
31 Flannery, Wm	Centennial Cemen
	Engineers' Hair Remedy
	Embroidery Pictures
	Grucible Co.,)Pencils, Axle Grease, Stove
`	Polish, etc.
29 Freud M. & Sons	Display of Ladies' Corsets
	Rug
	Carpets, Window Drapery and Furniture
	Quilt
	ing CoGeneral Display of Canned Vegetables
22 Fuller, Geo. H	Furniture and School Apparatus
•	G
1-2-3-18 Garratt, W. THo	poker's Patent Steam, double and single-acting,
	Power and Hand Pumps; Deep Well Pumps,
	with Toothaker's Attachment; Anderton's Pa-
	tent Blower; Garratt's Patent Jack-Head Pump;
	Boiler Feeders; Richmond's Patent Air Com-
	pressors and Rock Drills; Fire Hydrants;
	Water and Gas Gates; Hydraulic Rams; Log-
	ging Jacks; Globe Valves; Engine Governors;
	Boiler and Pump Combined Safety Valves;
	Lubricators; Bells and Gongs; General Assort-
•	ment of Brass Goods, Brass Tubing, Brass and
•	Copper Rods; Steam Guages; Tin, Copper,
	Antimony, Phosphor, Bronze, Bronze Cast-
40 C 7 35 35 .	ing and Bronze Statuary.
	Silk Quilt
	Hand-made Horse Shoes
	Patent Cups
31 Giant Powder Co	
	Model of Bicycle
22 Gilbert & MooreSci	hool and Office Furniture, Chairs, School Appa-
	ratus, etc.
17 Gladding, McBean & Co	.'. Terra Cotta Ware, Sewer Pipe, Fire-Brick, etc.
29 Goehring, Adolph	Artificial Flowers and their Manufacture
	Pillow Shams
	Felsen Beer
	Card Writing
	ng Iron WorksRoller Ore Feeder
	Steam Pumps
3	

Class.		
		Fancy Table Cover
		Sculpture and Modelling
43 G	rundel, J. G	
29 G1	riswold, Mrs & Co	
8-18-21 (Griswold BrosLan	ap Filler, Oiler, Fire Escape and Pillow Sham
		Holder.
19-41-44	Gump, S. & G. M	irrors, Terra Cotta Ornaments, Frames, Engrav-
		ings, Ornaments, etc.
99 C-		
		Ladies' Toilet Wardrobe
34 G1	indiach, J. & Co	California Wines and Brandies
		TT
		\mathbf{H}
		Pianos
20–36 Ha	agans, Geo. W	Piano and Sheet Music
19 Ha	itch, James	
40 Ha	ancock, Miss Annie E	Silk Quilts
34-35 Ha	araszthy, Arpad & Co.	Champagne, Wines and Bitters
1-11 Ha	awley Bros. Hardware	CoAgricultural Machinery and Implements,
	•	Steam Engines, etc.
11-21 Ha	awley. David $N \dots V \epsilon$	chicles, Farming Implements, Scales, Building
		Stone, etc.
$33~\mathrm{Hz}$	as, Geo	Candies
6-11 Ha	arries, James & Co	Gold Separator and Harrow
19 Ha	all, Lewis L	Fret Sawing
$22~\mathrm{Hz}$	artshorn & McPhun	Window Shades and Fixtures
13 Ha	rvey, C. D	
	-	Step-ladder and Elevator Combined
	· ·	Paintings
	· ·	Quilt
		Rustic Furniture
$5~\mathrm{He}$	$\operatorname{nriksen}$, B, E	Safety Clutch for Elevators
		tical Steam Engine and Boiler; Rotary Steam
		Pump, Ore Feeder and Baker Pressure Blower
39 Hi:		
	•	Apples and Peaches
- 4		Blackberry Cordial, Wine and Brandy
1—0 H.U	indington, r. A Qu	artz Mill and Concentrator, Model of Steam Boiler, Engine, etc.
13 H ₁₁	nter. Sifter Co	Flour Sifters
		Varnishes, Brushes and Artists' Materials
		Toothache Drops
01 110	rizog & Schaite	·····

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Class. 31 Ichi Ban	
${f J}$	
11 Jackson & TrumanAgricultural Machinery and Implements of California Manufacture.	
37 Jackson, R. W	
1-3-6 Jardine, J. B Quartz Mill with Vacuum Attachment, Engine, Power Shears and Punches.	
24 Jacobi & Short	
K	
5 Kennedy, James P	
31 Keil, Fred CPerfumery2 Kessler, HenrySteam Regulator for Pumps27 Kittle & CoJ. P. Coats' Spool Cotton45 Kirkland, J. BPhotograph of Pennsylvania Scenery	
40 Kincaid, Mrs. S. A. Bed Spread and Pillow Shams 21 Kimball, G. P. Two-Wheeled Phaeton 21 Kitzmuller, M. Buggies and Rockaway	
21 Kirkland, Wm. P	
40 Kothe, Mrs. C. M	
19 Kruger, J. H	
${f L}$	
22 Laermans, Frank	

Class.
31 Lake, Henry & Co Patent Japan Shoe Blacking
14-15 Latson, Frank P. & Co Bronze Hardware
31-33 Lambert, Frank Preserved Food and Rheumatic Cure
11 La Jeunesse, A Automatic Harrow
18 Lane, W. E Lane's Triplet Sewer Trap
2 Langreher, H. C
13 Lantheaume, JeanGas Stove for Waffles
21 Landers, M. H Man-Catcher for Rail Cars
34 Lachman, J. & Co General Display of California Wines
40 Lewis, Mrs. L Crochet Bed Quilt
13 Levy, Oscar Display of Stoves, Ranges and Kitchen Furniture
26 Liebes, H. & Co General Display of Furs, Robes and Mats
40 Lipman, Mrs. M
18 Liesenfeld, P Billiard Tables, Cushions and Fixtures, Marble
Statuary.
14 Liddle & KaedingGuns, Pistols, Fishing Tackle and Sporting Goods
13-36 Linney, J. H
40 Little Infants' Shelter Kindergarten Work
1 Llewellyn Steam Condenser Manufacturing Co Steam Heater and
Condenser.
31 Lord, Mrs. S
21 Lowney, Jerry & SonBuggies, Wagons and Coal Cart
13 Loomis, W. H
21 Lodi Novelty Works
40 Luger, Mrs. Juliana Wax Flowers and Skeleton Leaves
40 Lush, Mrs. Henrietta Bed Spread and Pillow Shams
40 Ludwick, Mrs. M. A
40 Lynch, Mrs. H. H Knitted Stockings
M
25 Main & Winchester Harness, Saddlery, Horse Clothing, Whips, etc.
10-27 Mackey, Alexander Tapestry, Brussels, Ingrain and Rag Carpets;
Loom in operation; Matting, etc.
3 Marwedel, C. F Machinists' Tools, etc.
22 Marwedel, E. H. Brass Bedsteads, Cornice Poles, Window Shades
and Fixtures.
37 Marsh, G. T. & CoJapanese and Oriental Goods
40 Mathews, Mrs. S. A Crochet Quilt
40 Malone, Miss Mamie Lacework
5 Martin, T. E
19 Mallon, John Decorative Architectural Glass Work
31 Masson, J. E
32 Marasovich, Lucas
24 Mattullath Manufacturing Company Barrels, Kegs, etc.
7 Martin, Sarah
, and the state of

Class.	
39 McLean, A. A	I. X. L. Truss
21 McCue, M. J	agons and Rockaway
43 McGowan, Mrs. Judith Cushions, Perfumery	y, Sachets, Bags, etc.
42 McCormick, Miss M. E	_
7-24 McConaughy, D. E Carpet Swe	_
47 McLellen, Mrs. M. C	
19 McEachren & Rowe	
40 McPherson, Mrs. M. P	
31 Merriman, A. F. & Son	
21 Mersereau, A. S Mersereau's Imp	
46 Meyer, E Foliage, Plant	
31 Merrill, J. LH. W. John's Asbestos Paints, Clot.	
29 Mish, Mrs. S	_
31 Mitchell, Geo. H	· · · · · · · · · · · · · · · · · · ·
37 Michel, Bichara & Co Oriental C	_
34 Migliavacca, GZinfando	
40 Morse, Mrs. J Pillow Shams, Crewel	
	•
17-32 Montague, W. W Grates, Marbleized Iron, Man Fire-Place Heaters and C	
44 Moore, Mrs. M. H	
40 Moldrup, Miss Ade	
40 Morse, Mrs. H	
31 Moore, A. S. & CoSil	· · · · · · · · · · · · · · · · · · ·
29 Morrow, Mrs. & Co Griswold's Ski	
40 Moore, Miss H. E. L	
46 Murphy, J. T	Cut Flowers
11 Mudge, T. A Wheeler	Patent Fruit Cannery
47 Munson & Grevies	Tuscan Wheat
13 Myers, Jno. F Oil Stoves	and Stove Furniture
46 Myers, E	Plants and Flowers
\mathbf{N}	
35 Naber, Alfs & Brune	Whiskey and Bitters
21 Nathanson, MVehicle Br	•
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40.0 1.1 H 75° 75 A	m., 1:1 D
40 Oakshett, Miss M. A	
29 Ober, Mrs. M. H	
12 Occidental Foundry	_
1 Ohmen, W. HSteam Engines, Upright and He	orizontal, Engine and
Boiler Combined.	
40 O'Neil, Celine	String of Buttons
11 Osborne, D. M. & CoGeneral Display of Ag	gricultural Machinery
and Implements.	

42 Oviatt, Mrs. M	Class.	
P 22 Pacific Spring and Mattress Co	4-21 Osborne and Alexander Fo	
P 22 Pacific Spring and Mattress Co	42 Oviatt, Mrs. M	<u> </u>
P 22 Pacific Spring and Mattress Co Furniture, Mattresses, etc. 19 Pacific Coast Screen Co Magic Window Screen 38 Pacific Bell Telephone Co Telephones 31 Pacific Ink Factory. Inks, Mucilage and Blueing 19 Pacific Fortable House Co Model of House 31 Pacific Fertilizing Co Fertilizers 3-13 Pacific Stove and Iron Works. Stoves, Ranges and Castings 4-16 Pacific Saw Manufacturing Co Saws and Edge Tools 40 Palmer, Mrs. Fanny. Quilts 40 Parent, Mrs. H. H Miniature Furniture 36 Patrick, B. H. & Co Protyph's Scales, all sizes 13 Pander, E Oil Stoves and Heaters 13 Parisian Polish Co Furniture Polish 40 Pollak, Mrs. Jno Quilt 27 Peake, Chas. & Co Turkish Rugs 40 Peterson, Mrs. A. N Hand-made Tidies, Laces, Curtains, etc. 24 Petersen, Peters. Pony Brandy Keg 5 Phelps, Foster & Co Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works. Varnishes, Gums and Brushes 1 Pinneo, G. D National Fuel Economizer 28 Poheim, Joe Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards		
22 Pacific Spring and Mattress Co. Furniture, Mattresses, etc. 19 Pacific Coast Screen Co. Magic Window Screen 38 Pacific Bell Telephone Co. Telephones 31 Pacific Ink Factory Inks, Mucilage and Blueing 19 Pacific Fortable House Co. Model of House 31 Pacific Fertilizing Co. Fertilizers 3-13 Pacific Stove and Iron Works. Stoves, Ranges and Castings 4-16 Pacific Saw Manufacturing Co. Saws and Edge Tools 40 Palmer, Mrs. Fanny Quilts 40 Parent, Mrs. H. H. Miniature Furniture 36 Patrick, B. H. & Co. Picture Cards, etc. 38 Parkhurst, V. S. W. Forsyth's Scales, all sizes 13 Pander, E. Oil Stoves and Heaters 31 Parisian Polish Co. Furniture Polish 40 Pollak, Mrs. Jno. Quilt 27 Peake, Chas. & Co. Turkish Rugs 40 Peterson, Mrs. A. N. Hand-made Tidies, Laces, Curtains, etc. 24 Petersen, Peters. Pony Brandy Keg 5 Phelps, Foster & Co. Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works Varnishes, Gums and Brushes 1 Pinneo, G. D. National Fuel Economizer 28 Poheim, Joe. Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M. Washing Apparatus R 40 Raveley, Mrs. S. W. Bedspread 32 Ranlett, Horace D. Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A. Hair Tonic 31 Reaves, Mrs. M. A. Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E. Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 33 Riley, J. H. W. Calligraphs 36 Roberts, Jno. W. & Co. Advertising Cards	,	ν·
19 Pacific Coast Screen Co		
38 Pacific Bell Telephone Co	22 Pacific Spring and Mattress C	Co Furniture, Mattresses, etc.
31 Pacific Ink Factory		
19 Pacific Fortable House Co	38 Pacific Bell Telephone Co	Telephones
31 Pacific Fertilizing Co	31 Pacific Ink Factory	Inks, Mucilage and Blueing
3-13 Pacific Stove and Iron Works Stoves, Ranges and Castings 4-16 Pacific Saw Manufacturing Co Saws and Edge Tools 40 Palmer, Mrs. Fanny Quilts 40 Parent, Mrs. H. H Miniature Furniture 36 Patrick, B. H. & Co Picture Cards, etc. 38 Parkhurst, V. S. W Forsyth's Scales, all sizes 13 Pander, E Oil Stoves and Heaters 31 Parisian Polish Co Furniture Polish 40 Pollak, Mrs. Jno Quilt 27 Peake, Chas. & Co Turkish Rugs 40 Peterson, Mrs. A. N Hand-made Tidies, Laces, Curtains, etc. 24 Petersen, Peters Pony Brandy Keg 5 Phelps, Foster & Co Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works Varnishes, Gums and Brushes 1 Pinneo, G. D National Fuel Economizer 28 Poheim, Joe Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards	19 Pacific Portable House Co	Model of House
4-16 Pacific Saw Manufacturing Co. 40 Palmer, Mrs. Fanny Quilts 40 Parent, Mrs. H. H	31 Pacific Fertilizing Co	Fertilizers
40 Palmer, Mrs. Fanny	3-13 Pacific Stove and Iron Works	S Stoves, Ranges and Castings
40 Parent, Mrs. H. H. Miniature Furniture 36 Patrick, B. H. & Co Picture Cards, etc. 38 Parkhurst, V. S. W Forsyth's Scales, all sizes 13 Pander, E Oil Stoves and Heaters 31 Parisian Polish Co Furniture Polish 40 Pollak, Mrs. Jno Quilt 27 Peake, Chas. & Co Turkish Rugs 40 Peterson, Mrs. A. N Hand-made Tidies, Laces, Curtains, etc. 24 Petersen, Peters Pony Brandy Keg 5 Phelps, Foster & Co Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works Varnishes, Gums and Brushes 1 Pinneo, G. D National Fuel Economizer 28 Poheim, Joe Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards	4-16 Pacific Saw Manufacturing Co	o Saws and Edge Tools
36 Patrick, B. H. & Co 38 Parkhurst, V. S. W 50 Forsyth's Scales, all sizes 13 Pander, E 60 Oil Stoves and Heaters 31 Parisian Polish Co 60 Furniture Polish 40 Pollak, Mrs. Jno 70 Quilt 70 Peake, Chas. & Co 71 Trkish Rugs 40 Peterson, Mrs. A. N 71 Hand-made Tidies, Laces, Curtains, etc. 72 Peterson, Mrs. A. N 73 Hand-made Tidies, Laces, Curtains, etc. 74 Petersen, Peters 75 Phelps, Foster & Co 76 Carpet Renovating Works 76 Phillips, Mrs. Henry 77 Embroidered Skirt, Silk Cushion and Quilts 78 Poheim, Joe 79 National Fuel Economizer 70 National Fuel Economizer 70 Nen's Furnishing Goods 70 Men's Furnishing Goods 70 Cut Flowers, Foliage, Plants, etc. 70 Prydz, Mrs. Eliza 71 Cut Flowers, Foliage, Plants, etc. 72 Purcell, G. M 73 Reaveley, Mrs. S. W 74 Native Copper Ore 75 Regan & Neuman 76 Reaveley, Mrs. M. A 77 Hair Tonic 77 Reaveley, Mrs. M. A 78 Hair Tonic 78 Reaves, Mrs. M. A 79 Hanos and Sheet Music 79 Regan & Neuman 70 Pianos and Sheet Music 71 Reyburn, Wm. H. & Bros 72 Compressed Shavings for Kindling Fires 73 Redstone, A. E. 74 Quartz Mill and Concentrator 75 Richardson Bros 75 Postage Stamps, Cards, etc. 76 Riley, J. H. W 77 Calligraphs 78 Roberts, Jno. W. & Co 86 Roberts, Jno. W. & Co 87 Advertising Cards	40 Palmer, Mrs. Fanny	Quilts
38 Parkhurst, V. S. W. Forsyth's Scales, all sizes 13 Pander, E. Oil Stoves and Heaters 31 Parisian Polish Co. Furniture Polish 40 Pollak, Mrs. Jno. Quilt 27 Peake, Chas. & Co. Turkish Rugs 40 Peterson, Mrs. A. N. Hand-made Tidies, Laces, Curtains, etc. 24 Petersen, Peters Pony Brandy Keg 5 Phelps, Foster & Co. Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works Varnishes, Gums and Brushes 1 Pinneo, G. D. National Fuel Economizer 28 Poheim, Joe. Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M. Washing Apparatus R 40 Raveley, Mrs. S. W. Bedspread 32 Ranlett, Horace D. Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A. Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E. Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W. Calligraphs 36 Roberts, Jno. W. & Co. Advertising Cards	40 Parent, Mrs. H. H	Miniature Furniture
13 Pander, E	36 Patrick, B. H. & Co	Picture Cards, etc.
31 Parisian Polish Co	38 Parkhurst, V. S. W	Forsyth's Scales, all sizes
40 Pollak, Mrs. Jno	13 Pander, E	Oil Stoves and Heaters
27 Peake, Chas. & Co	31 Parisian Polish Co	Furniture Polish
40 Peterson, Mrs. A. N		
24 Petersen, Peters Pony Brandy Keg 5 Phelps, Foster & Co Carpet Renovating Works 40 Phillips, Mrs. Henry Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works Varnishes, Gums and Brushes 1 Pinneo, G. D National Fuel Economizer 28 Poheim, Joe Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards		
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40 Phillips, Mrs. Henry. Embroidered Skirt, Silk Cushion and Quilts 31 Pioneer Varnish Works. National Fuel Economizer 1 Pinneo, G. D. National Fuel Economizer 28 Poheim, Joe. Men's Furnishing Goods 46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M. Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards		
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28 Poheim, Joe		
46 Pouyal, John Cut Flowers, Foliage, Plants, etc. 40 Prydz, Mrs. Eliza Embroidered Rug and Towel 7 Purcell, G. M Washing Apparatus R 40 Raveley, Mrs. S. W Bedspread 32 Ranlett, Horace D Native Copper Ore 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards		
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40 Raveley, Mrs. S. W		
40 Raveley, Mrs. S. W	7 Purcell, G. M	Washing Apparatus
32 Ranlett, Horace D 20 Regan & Neuman Pianos and Sheet Music 31 Reaves, Mrs. M. A Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E Quartz Mill and Concentrator 32 Richardson Bros Postage Stamps, Cards, etc. 38 Riley, J. H. W Calligraphs 36 Roberts, Jno. W. & Co Advertising Cards		\mathbf{R}
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20 Regan & Neuman	-	-
31 Reaves, Mrs. M. A. Hair Tonic 31 Reyburn, Wm. H. & Bros Compressed Shavings for Kindling Fires 6 Redstone, A. E		
31 Reyburn, Wm. H. & BrosCompressed Shavings for Kindling Fires 6 Redstone, A. E		
6 Redstone, A. E		
32 Richardson BrosPostage Stamps, Cards, etc.38 Riley, J. H. WCalligraphs36 Roberts, Jno. W. & CoAdvertising Cards		
38 Riley, J. H. W		
36 Roberts, Jno. W. & Co		
and incomment, it is a second of the second		
29 Rogers, AOstrich Feathers		

Class.
36 Roach, John Optical Goods, Surveying and Mathematical Instruments
5 Robinson, A Wire Fence Machine and Model of Jack Truck
40 Roebuck, Mrs. ElizaSilk and Wool Quilt
39 Robertson, J
31 Ruesser, Chas
47 Runyon, Sol
· · · · · · · · · · · · · · · · · · ·
3 San Francisco Tool CoIron Lathes, Shapers, Gear Cutter, Drills, Milling Machine, etc.
19-44 Sanborn, Vail & Co General Display of Mirrors, Pictures, Frames,
Engravings and Fancy Ornaments.
11 Sacramento Iron Fence Co
1 Sanders, W. ASteam Engine
46 Saywell, ThomasCut Flowers and Dahlias
18 Sack, W. M
2-18 Sanford, A. BPulsometer Pump, Steam and Hot Water Heater
19 Scovern & McCallFret Saw Work
44 School of Design
30 Seal Rock Tobacco Co
12 Selby Smelting and Lead CoLead and Tin Pipe, Sheet Lead, Shot, etc.
13 Segal, Adolph
40 Seivers, Mrs. CTidies, Hair and Tarltan Flowers
37 Shepman, W. EReplated Ware and Silver-Plated Amalgamating Plates.
19 Simmons, W. H
17 Simmons, Robert
31 Slaven, H. B Fruit Salt and Yosemite Cologne
31 Smith, Dr. B. J
4 Smyth & Watson Smyth's Patent Tree Feller and Log Saw
44 Smyth, W. H
29 Snow, John F
31-35 Souther, Jos. N. & Co. Green Ginger Brandy, Stomach Bitters,
Essences and Extracts.
36 Stowe, Mrs. J. W Work of the Social Science Sisterhood
13 Spiers, M. E Portable Fruit Dryer and Heat Tender
5-36 Spaulding, Geo. & CoGordon Cylinder Printing Press, Type and Specimens of Printing.
4 Spaulding, N. WCircular Saw with inserted Teeth, "Spaulding's Patent."
3 Studabecker & Loudon
21 Studebaker Bros. Manufacturing Company Carriages, Phaetons and Buggies.
20 Statham Piano Co Pianos
40 Stettin, Mrs. HGold, Silk, Linen and Chenille Embroidery

Class.	
·11 Stanley, James	Automatic Gate
31 Standard Soap Co	Soaps and Candles
31 Stoddart Bros	
•	Fancy Paper Work
	Fruit Boxes
•	Linen Shirt
	Model of Ship
	Fruit Baskets
	Marble 'Cable Top
r	
. 1	
22 Taylor, R. W	Sofa Bed and Lounge
26 Taylor, S. P. & Co	White and Colored Papers
40 Taylor, Miss Bessie	Embroidered Toilet Set
31 Thompson, Geo	Soda Fountain and Apparatus
18 Titus, J. T	Sewer Gas Trap
14 Truworthy, F. M., Mrs Ster	ncil Plates, Rubber Stamp Brands, etc.
6 Triumph Concentrating Co	Wet Concentrator
26 Tubbs & Co	Manilla and Sisal Rope and Cordage
6 Tustin, W	Quartz Pulverizer
4	
•	/
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31 Vogeler, A. & Co	St. Jacob's Oil
W	r
31 Wakeling, Mrs	Blood Purifier, Magnetic Oil, etc.
=	
	Automatic Port Window
•	
31-32 Warren, ColEucalyptus Med	
etc.	
20 West, Wm	Banjo
22 West Coast Furniture Co Gen	eral display of all kinds of fine Furniture
	Electro-Medical Belts
	Optical Goods
38 Wenzel, H	Pneumatic Clocks
	Portable Grist Mill and Grain Chopper
	Plumber's Goods, Bells, Lubricator, etc.
	Buggy
11-38 Wellington, B. J Lawn Mow	
•	oom Spawn, Egg Food, etc.
13 Webster, W. W	Oil Stoves

Class.	id -
2	Rotary Book Case and Law Books
	Pastiles and Perfumery
21 Whitmore E	Buggies, Phaetons & Wagons
	Lead and its Manufactures; Varnishes, Glue,
io or whiteler, runor & co	Ground and Prepared Colors, Prepared
	Paint for General use; Artists' Materials,
•	Brushes, Plate Glass Mirrors, etc.
21 Willow O. F	General display of Fine Imported Carriages
·	Eclipse Incubator and Artificial Mother
	Pruning Shears
	Peruvian Bitters
	Cutlery and Combs
	Household Goods and Utensils
· ·	
21–25 Woodward, R. B. &	Co Carriages, Harness, Saddlery, Whips,
	Robes, etc.
	Natural History Specimens
· · · · · · · · · · · · · · · · · · ·	Quilt and Cushion
32–46 Woodward's Gardens	Foliage, Plants, Ferns, Flowers, Animals and
	Birds.
38 Woolhouse Bros	Sunlight Gas Machine
	Dish Washer
11 Woolsey, Jno. SSt	eam Generator, Lawn Sprinklers, Cheese Vat,
	Animal Gun.
33 Wulff, P	
31 Wright, E	

CATALOGUE

OF THE

ART DEPARTMENT.

ROOM No. 1.

Title.	Possessor.
Japanese Decorative Art	Ichi Ban
	•
ROOM No. 2.	
Portrait (water color)	Oscar Kunath
Joaquin Murietta	. Henry Raschen (after Nahl)
Geyser Peak	L P. Latimer
Cypress Point, Monterey	H. Cleenewerck
Sheep's Head	
Turkey	
Grapes	
The Charcoal Burner's Hut	
Adobe House, Los Gatos	R. D. Yelland
Scene in Australia	Johnstone
Sand Dunes	
Scene in Dresden	Arthur Nahl
Bull Calf (Virgil Williams)	E. R. Garczynski
Landscape (William Hart)	E. R. Garczynski
The Cascades (Thomas Hill)	E. R. Garczynski
Mount Hood	William Keith
Mount Tamalpais	William Keith
Interior of Forest (Homer Martin)	E. R. Garczynski
Sweet Corn (E. Wood Perry)	E. R. Garczynski
Promise	
Clearing Away in Maine	William Keith
Clear Lake From Uncle Sam	
Mount Shasta	William Keith
Juliet in Friar Lawrence's Cell	Theo. Wores
Mount Shasta (Thomas Hill)	·
Study	Henry Raschen
Study	Henry Raschen
Costume of the Time of Louis Quatorze (A. Les	rel) E. R. Garczynski

Title.	Possessor.
Study	Henry Raschen
Study	•
Salmon Festival	
The Huntress	
Old Italian Town	· ·
Glossy Starling	•
Blue Bird.	
Wet	
Song Sparrow	
Foothill Scenery (William Keith)	
	·
Mexican Cardinal	
In the Franconia Notch	
Duck Shooting, San Mateo	
Paper Mill Creek	
Grapes	
Rescue of the Innocents	
Royal Arches, Yosemite	
Cattle Piece—Path by the Brook	
Just Landed	
Head	· ·
Portrait	· ·
Little Calaveras Valley	
California Sheep Range	
"Dog on the Bullet"	_
"We have Struck it Rich, Pard"	·
Dolorosa	
Portrait, Professor John Le Conte (Henry Raschen)	· ·
Head	
Portrait (Old Man)	
The Return from the Bear Hunt	
The Studio Corner	
Two Studies	Theo. Wores
Charley Jack (Portrait)	E. Narjot
Four Portraits	E. Narjot
Two Runaways	•
"Do I Like Butter?"	E. Narjot
Elaine (Domenico Tojetti)	Tiburcio Parrott
Yosemite Valley	Henry Cleenewerck
Waiting for the Artist	Mrs. Danielwitz
The Arab—After Schreyer	Mrs. Danielwitz
Interior Wood Scene	
Hollyhocks	_ _
MacDonall's Creek (L. P. Latimer)	
La Femme et le Pot au Lait	_
Roses	
1	

Title.	Possessor.
Portrait, John Brown	S. W. Shaw
Portrait, Gen. Grant	S. W. Shaw
Cattle	William Hahn
Idle Moments (Capri)	
Hollyhocks	Mrs. Weister
Lake Nianza (Africa)	Norton Bush
Head (Study)	Oscar Kunath
Peonies	
Tulips	
The Pioneer	
Trout Fishing	
Il Trovatore	
Fishing	
Sunset on Mt. Shasta	
Adopted Design for Garfield Monument (F. Happersber	_ ,
The Last Arrow (Statuary)	F. Happersberger
Exhibit of the Society of Decorative Art of California.	
The Spirit of Mischief	
Landscape.	
Portraits	•
Orpheus and Eurydice	
The original life-size picture was painted by J. August Nahl, Jr from the Greek Mythology, representing Orpheus, the Mu infernal regions, after having implored Pluto, (the God of wife Eurydice who was concealed there. Pluto (charmed grants the request on condition that he look not upon her which promise he was unable to fulfill; for, feeling the to arm he could not resist the temptation to look. This unfor his wife to disappear from him for ever.	Hell,) to return to him his by the music of Orpheus) antil they reached the light; buch of her hand upon his
Saxonian Baroness	Arthur Nahl
Slightly Æsthetic	Cecil Romer
Scene on the Chagres River	
Moonlight in Yosemite	Thomas Hill
The Wreck	Thomas Hill
Napa Valley	William Keith
Interior (Wood Scene)	Nellie Hopps
Roman Girl	Emily S. Ryder
Study—Still Life	
Frosty Morning	
Oriental Beauty	
Pigs	
Portrait	
The Shepherdess	
Landscape	
Interior, (Soquel Creek.)	
Studio Corner	F. Schafer

Title.	Possessor,
Girl in Poke Bonnet	E. R. Peters
Cherub from Raphael's Sistine Madonna (Ju	lia Schulte),
aged 15 years and 6 months	
Bachelor's Buttons	Emily Ryder
Virgin Mary	
After Carlo Maratti	
Study (Eggs)	
Early Morning (Mexico)	
Rejected	
To the Rendezvous	
On the Lookout	
Rev. R. Mackenzie (Geo. H. Burgess)	
Maud Branscombe	
Fannie Davenport	Geo. H. Burgess
Portrait, Water Color	Geo. H. Burges
Five Portraits	Oscar Kunath
Painting	
Cherub from Raphael's Sistine Madonna (a	
aged 15 years, 6 months	
Fruit	
Cupid (Mary E. Howe)	
Portrait	
Two Portraits	
Cleopatra's Barge	· · ·
Uncle Sam Mountains	
Mount St. Helena	
Point Bonita	
Golden Gate	
A Farm on Lake Geneva	
Purissima Falls	
Our Patron Saints	•
Captain Jack Crawford	
Oil Painting	
Portrait	
The Gypsy Fortune Teller	
Fern Picture	
The Monarch of the Glen	
Flowers	
Lilacs	
Scene in the Blue Ridge	
One of the Four Cantons	
Fern Picture	
Contemplation	
Austin Creek	

Title.	Possessor.
The Combat	
King Fisher	
Ten Portraits (J. Z. Dudley)	
Christopher Columbus	
Fortuna	
Portrait, Judge McKee (Albert Jenks)	
Portrait, Miss Woodward	
Portrait, H. Raymond (Albert Jenks)	
Portrait, Miss S. Jones (Albert Jenks)	
Portrait, Moses Hopkins (Albert Jenks)	
Portrait, G. S. Bangs (Albert Jenks)	
Portrait, G. L. Johnson (Albert Jenks)	
Portrait, Mrs. Lampe (Albert Jenks)	
Portrait, R. Dennison (Albert Jenks)	
Portrait, Bob Ingersoll	
Portrait, Emelie Melville	
Portrait, Wm. Lampe (Albert Jenks)	
Portrait, Judge Sharpstein	
Portrait, Miss Hopkins (Albert Jenks)	
Portrait, Master Malone (Albert Jenks)	
Portrait, Miss Parks (Albert Jenks)	
Portrait, Rev. Dr. Specker	
Portrait, Judge Garber	
Portrait, Dr. Hardy	
Portrait, Bishop Kip	
The Old Oaken Bucket	
The Orphans	
Flowers	Blanche Cohn
Scene in Santa Cruz Mountains (Wilson Taylor)	Mrs. E. J. Taylor
Outside the Golden Gate (Wilson Taylor)	Mrs. E. J. Taylor
Portrait (A. E. Wilson)	M. E. Barnes
Placques in Oil	Miss M. E. McCormick
PansiesNellie E. Jones	(pupil of B. L. Cohn)
Study (Wilson G. Taylor)	
The Broken Cup (Harry L. Cohn)	B. L. Cohn
Landscape	Blanche Cohn
Judith	E. Reitle
Placque (Flowers)	Mrs. Wm. Gallagher
Flowers	Mrs. Wm. Gallagher
Resurrection of Christ (Unknown)	D. V. Walsh
Portrait, Miss S. Wood	Emily S. Ryder
Portralt, Garfield	Emily S. Ryder
Portrait, Bishop Kip	Emily S. Ryder
Portrait, Donna L. Tinoco	H. Borneman
Portrait, Donna Emilia (wife of the President of Cost	a Rica)
water color	H. Borneman

Title.	Possessor.
Portrait, Gen. Don T. Guardia (Pres. Costa Rica) H. Borneman
Portrait, Pres. Barrios, Guatemala	H. Borneman
Nine Portraits, Water Colors	H. Borneman
Roses	
Poppies	Miss Annie Goldwater
Placque, Morning Glories	Miss Curry
Moss Rose Buds	-
Portrait, Water Colors	
Vase and Bunch of Roses	
Dog's Head	Miss Annie Kane
Cliff Beach	•
Placque of Roses	
Guardian Angel	
Basket of Lilacs	
Panel of Rosebuds	
Blue Bird, Water Color	Mrs. E. C. Hatch
Roses	
Placque of Lilies	
Mt. Hood	, Mr. Frank Capp
Sunset	
Placque of Poppies	Mrs. E. C. Hatch
Flower Piece	Ettie Seaton
Rose Panel	Mrs. E. C. Hatch
Vase of Flowers	Alice Levy
Landscape	Mrs. M. H. Lovely
Portrait (Water Color)	Mrs. E. C. Hatch
Panel, Morning Glories	Miss Ettie Leaman
Roses (Miss M. M. Shepherd)	Mrs. Shepherd
Oil Painting	Geo. W. Adams
Painted Placques	Miss E. Watson
Oil Painting	Mrs. F. C. Brownlee
Oil Painting	David V. Walsh
Studies and Penmanship	.By Pupils of H. Michelson
Studies and PenmanshipBy	Pupils of Carl Eisenschimel
Studies and Penmanship	. By Pupils of P. A. Espina
Six Medley Pictures	Mrs. B. F. Ingals
Photographic Views	O. V. Lange
Specimens of PenmanshipBy Pupils of Ca	lifornia Commercial College
Crystalline Portraits	J. D. Van Sant
Studies in Oil and Water Color	Chas. Prosch
Specimens of PenmanshipBy Pupils	of Heald's Business College
Hair Work Pictures	L. P. Federmeyer
Ornamental Designs	By G. Gorla
Crayon Portrait	
Painting	Mrs. E. C. Dills

Title.	Possessor.
Specimens of Penmanship	.Leszynsky's Business College
Crayon Drawing	•
Drawing, Ecce Homo, Pen and Ink	
Drawing, Infliction, Pen and Ink	
Drawing	
Drawing	
Studies	
Crystalline Portraits	
Five Crayon Portraits	
Crayon Portrait	
Three Crayon Drawings	
Lace Work	
Porcelain Painting	
Porcelain Painting	By Pupils of Mrs. Helen Brodt
Exhibit of the Decorative Art Union.	
Porcelain Painting	Miss A. Hasler
Painting on Silk, etc	
Curios	
Porcelain Painting	Miss Eva McCormick
Lace Work	
Table Top	•
Ornamented Table Top	
Pigeon Cote	
Landscape	Blanch L. Cohen
Portraits	
Five Flower Pieces	Miss Sarah Duprey
Oil and Water Color Paintings	Mrs. M. H. Moore
Picture	Francis Ballinger
Portrait	Miss M. C. Waller
Portrait, Children (Amelia Simpson)	J. Simpson
Six Placques	E. S. Ryder
Moonlight	E. S. Ryder
Two Flower Pieces	A. E. Rogers
Fruit Piece	A. E. Rogers
Still Life	A. E. Rogers
Hooked	
Landed	Samuel M. Brookes
Pencil, Ink and Crayon Drawings (original)	Pupils of School of Design
Pencil and Crayon DrawingPup	ils of the Public Night School
	(S. F. School Department)

PREMIUM LIST.

AWARDS OFFERED AND NAMES OF THE JURORS

FOR THE

SEVENTEENTH INDUSTRIAL EXHIBITION.

Note.—Only the heading of the Classes and number of Premiums offered in each Class are given in this report, as they were published in full previous to the Fair.

DIVISION 1.

MACHINERY.

Class 1.—Steam Engines, Boilers and Appliances.

EIGHTEEN PREMIUMS.

1 Gold Medal.

6 Bronze Medals.

6 Silver Medals.

5 Diplomas.

JURORS:

G. L. PIERCE.

W. H. BIRCH.

Class 2.—Hydraulic Machinery.

THIRTEEN PREMIUMS.

1 Gold Medal.

3 Bronze Medals.

7 Silver Medals.

2 Diplomas.

M. ARNOLD.

C. A. BYERS

E. H. THOMPSON.

Class 3.—Machinists' Tools and Metal Working Machinery.

JURORS:

TWENTY-ONE PREMIUMS.

2 Silver Medals.

13 Bronze Medals.

6 Diplomas.

JURORS:

JAMES PATTERSON.

I. M. SCOTT.

IRA P. RANKIN. SAM'L. DINSMORE.

4

Class 4.—Wood-Working Machinery.

TWENTY-EIGHT PREMIUMS.

1 Gold Medal.
9 Silver Medals.

13 Bronze Medals.

5 Diplomas.

JURORS:

OSCAR LEWIS.

GEO. HULL.

J. HAMMOND

Class 5.—Printing and Miscellaneous Machinery.

SEVENTEEN PREMIUMS.

1 Gold Medal.

4 Bronze Medals.

10 Silver Medals.

2 Diplomas.

JURORS:

O. LEWIS.

T. E. KEOUGH

Class 6.—Mining Machinery and Appliances.

FOURTEEN PREMIUMS.

.1 Gold Medal.

10 Silver Medals.

3 Bronze Medals.

Jurors:

J. R. SCUPHAM, WHEELER N. FRENCH,

A. HALSEY, W. J. COLLINS

Class 7.—Laundry Machinery.

SEVEN PREMIUMS.

1 Silver Medal.

2 Bronze Medals

4 Diplomas.

Jurors:

JUR

OSCAR LEWIS.

Class 8.—Fire Apparatus and Appliances.

EIGHT PREMIUMS.

1 Gold Medal.

1 Bronze Medal.

4 Silver Medals. 2 Diplomas.

Jurors:

ABNER DOBLE, JAS. McCORD,

T. E. KEOUGH,

W. M. ALLEN, B. GALLAGHER.

J. SOLOMON.

Class 9.—Marine.

TWELVE PREMIUMS.

4 Silver Medals.

6 Bronze Medals.

2 Diplomas.

JURORS: '

OSCAR LEWIS,

T. E. KEOUGH.

CLASS 10.—Sewing, Knitting and Braiding Machines and Looms.

Eleven Premiums.

1 Gold Medal.

7 Silver Medals.

3 Bronze Medals.

JURORS:

MRS. D. H. EDWARDS,

M. LACHMAN,

DAVID C. SMITH.

Class 11.—Agricultural Machinery.

THIRTY-SIX PREMIUMS.

1 Gold Medal.

8 Bronze Medals.

11 Silver Medals.

16 Diplomas.

JURORS:

GEO. W. FOGG,

N. W. SPAULDING,

I. M. SCOTT.

DIVISION 2.

MANUFACTURED PRODUCTS AND METALS.

Class 12.—Iron, Steel and Lead.

EIGHTEEN PREMIUMS.

3 Gold Medals.

3 Bronze Medals.

9 Silver Medals.

3 Diplomas.

JURORS:

ISAAC CORY,

CHAS. L. BIGELOW,

ALBERT FOLSOM.

Class 13.—Cooking, Heating and Ventilating.

TEN PREMIUMS.

1 Gold Medal.

3 Bronze Medals.

3 Silver Medals.

3 Diplomas.

Jurors:

A. S. IREDALE,

P.J. O'CONNOR.

Class 14.—General Hardware.

TEN PREMIUMS.

3 Silver Medals.

3 Bronze Medals.

4 Diplomas.

JURORS:

W. M. BETTS,

MUNSON RUSSELL.

Class 15.—Fire and Burglar-Proof Safes and Locks.

Four Premiums.

1 Gold Medal.

3 Silver Medals.

(Consolidated with Class 14.)

CLASS 16.—Cutlery and Edge Tools.

THHEE PREMIUMS.

1 Gold Medal.

2 Silver Medals.

JURORS:

H. N. COOK,

RICHARD YOUNG.

Class 17.—Grutes and Mantels, Marbles, Artificial Stone, Earthenware, Glassware, etc.

SIXTEEN PREMIUMS.

1 Gold Medal.

4 Bronze Medals.

8 Silver Medals.

3 Diplomas.

JURORS:

JOHN WRIGHT,

H. T. HOLMES.

Class 18—Brass Work, Gas and Lamp Fixtures, Plumbers' Goods, etc.

FOURTEEN PREMIUMS.

1 Gold Medal.

4 Bronze Medals.

8 Silver Medals.

1 Diploma.

C. R. STEIGER,

JURORS: RICHARD SAVAGE,

WM. CURLETT.

DIVISION 3.

MANUFACTURED PRODUCTS, WOOD OR WOOD AND IRON.

Class 19.—Carpenters', Joiners', Carvers', and Stair Builders' Work, Ornamental Glass, Painting, etc.

TWENTY-ONE PREMIUMS.

2 Gold Medals.

7 Bronze Medals.

4 Silver Medals.

8 Diplomas.

JURORS:

H. C. MACY, HORACE FLETCHER,

HER,

R. P. CUNNINGHAM, ANDREW WILKIE.

Class 20.—Musical Instruments.

FIVE PREMIUMS.

1 Gold Medal.

3 Silver Medals.

1 Bronze Medal.

JURORS:

MRS. FANNIE LEAL,

HENRY L. DAVIS,

IRA P. RANKIN.

Class 21.—Vehicles and their Attachments, Children's Carriages, Hobby Horses, etc.

TWENTY-THREE PREMIUMS.

2 Gold Medals.

12 Silver Medals.

4 Bronze Medals.

5 Diplomas.

JURORS:

JAS. McCORD, ABNER DOBLE, W. M. ALLEN, B. GALLAGHER.

JACOB SOLOMAN.

Class 22.—Furniture, Upholstery, etc.

EIGHTEEN PREMIUMS.

1 Gold Medal.

5 Silver Medals.

5 Bronze Medals.

7 Diplomas.

JURORS:

A. D. SHARON,

N. HUNTER,

W. J. T. PALMER.

Class 23.—Billiard Tables.

FIVE PREMIUMS.

1 Gold Medal.

1 Silver Medal.

2 Bronze Medals.

1 Diploma.

JURORS:

F. A. WILL,

N. P. COLE,

C. J. ROBINSON.

Class 24.—Wooden Ware, Wire Goods, Willow Ware, etc.

TEN PREMIUMS.

5 Silver Medals.

3 Bronze Medals.

2 Diplomas.

JURORS:

W. N. MILLER,

COLIN M. BOYD.

DIVISION 4.

MANUFACTURED PRODUCTS, ANIMAL AND VEGETABLE FABRICS.

Class 25—Boots, Shoes, Rubber Goods.

TWENTY-THREE PREMIUMS

3 Gold Medals.

6 Silver Medals.

8 Bronze Medals.

6 Diplomas.

JURORS:

C. L. HASKELL,

ELKAN WASSERMAN.

Class 26.—Hemp, Cordage, Paper, Furs, etc.

FIFTEEN PREMIUMS.

1 Gold Medal.

4 Bronze Medals.

9 Silver Medals.

6 Silver Medals.

4 Diplomas.

JURORS:

C. J. HENDRY,

J. K. WHITE.

Class 27.—Woolens, Dress Goods, Carpets, Cotton, etc.

2 Gold Medals.

THIRTEEN PREMIUMS.

2 Bronze Medals.

JURORS:

M. LACHMAN,

D. C. SMITH,

MRS. JENNIE McLEOD.

Class 28.—Gentlemen's Furnishing Goods, etc.

ELEVEN PREMIUMS.

7 Silver Medals.

4 Diplomas.

JURORS:

DAVID C. SMITH,

M. LACHMAN,

MRS. JENNIE McLEOD.

Class 29.—Ladies' Furnishing Goods, Dresses, Cloaks, Millinery, etc.

THIRTEEN PREMIUMS.

6 Silver Medals.

6 Bronze Medals.

1 Diploma.

Jurors:

MRS. HORACE WILSON,

MRS. M. E. PENDLETON,

Mrs. C. B. THOMPSON.

DIVISION 5.

CHEMICAL AND NATURAL PRODUCTS.

Class 30.—Tobacco.

FOUR PREMIUMS.

3 Silver Medals.

1 Bronze Medal.

(Consolidated with Class 31.)

Class 31.—Chemical and Pharmaceutical Products.

TWENTY-SEVEN PREMIUMS.

2 Gold Medals.

8 Bronze Medals.

14 Silver Medals.

3 Diplomas.

JURORS:

EDGAR BRIGGS, W. B. RISING,

ROBERT WALSH.

W. T. WENTZELL.
J. WALCOM.

Class 32.—Geology, Mineralogy, Zoology, etc.

TWELVE PREMIUMS.

9 Silver Medals.

2 Bronze Medals.

1 Diploma.

(Consolidated with Class 31.)

DIVISION 6.

FOOD PRODUCTS.

Class 33.—Groceries, Flour, Meats, etc.

TWENTY-TWO PREMIUMS.

1 Gold Medal.

4 Bronze Medals.

6 Diplomas.

11 Silver Medals.

JURORS:

DR. W. D. JOHNSON.

P. D. CODE.

D. D. SHATTUCK.

Class 34.—Wines.

THIRTY-EIGHT PREMIUMS.

1 Gold Medal.

37 Diplomas.

JURORS:

DR. J. I. BLEASDALE.

A. D. BELL.

F. PHONDORF

Class 35.—Fermented Products.

Three Premiums.
3 Diplomas.
Jurors:

J. D. THOMPSON, CALEB COATES.

MICHAEL KANE. J. HARRISON.

DIVISION 7.

LIBERAL AND DECORATIVE ARTS.

Class 36.—Printing, Lithographing, etc.

THIRTEEN PREMIUMS.

4 Silver Medals.

5 Bronze Medals.

4 Diplomas.

JURORS:

B. F. STERETT.

CHAS. L. SCUDDER

Class 37.—Gold, Silver and Plated Ware, Watches, Clocks, Jewelry, Bronzes, etc.

TWELVE PREMIUMS.

1 Gold Medal.

5 Bronze Medals.

3 Silver Medals.

3 Diplomas.

JURORS:

F. H. McCONNELL.

Class 38.—Scientific Apparatus.

TWENTY-ONE PREMIUMS.

1 Gold Medal.

9 Bronze Medals.

8 Silver Medals.

3 Diplomas.

JURORS:

W. J. WATERS. F. A. FRANK.

J. P. McMURRAY. DR. WM. HAMMOND.

Class 39.—Surgical and Dental Instruments and Appliances.

SEVEN PREMIUMS.

2 Silver Medals.

3 Bronze Medals.

2 Diplomas.

JURORS:

DR. HENRY GIBBONS, JR.,

DR. R. BEVERLY COLE.

Class 40.—Hair Work, Needle Work, Wax Work, Embroidery, etc.

FORTY-EIGHT PREMIUMS.

1 Silver Medal.

3 Bronze Medals.

44 Diplomas.

Jurors:

MRS. P. B. CORNWALL.

MRS. J. H. GILMORE.

MRS. GEO. SPAULDING.

MRS. A. R. WELLS.

DIVISION 8.

Class 41.—Paintings in Oil and Water Colors.

ONE THOUSAND DOLLARS IN CASH AS PREMIUMS.

JURORS:

EDWARD BOSQUI.

MAJ. T J. BLAKENEY.

MISS NELLIE A. WATERHOUSE.

MISS NELLIE HOPPS. MRS. O. F. WILLEY. CHAS. L. SCUDDER.

Class 42.—Ceramic Art.

THIRTEEN PREMIUMS.

1 Silver Medal.

12 Bronze Medals.

(Consolidated with Class 41.)

Class 43.—Sculpture, Statuary and Carving.

EIGHT PREMIUMS.

2 Silver Medals.

6 Bronze Medals.

JURORS:

J. J. REY.

J. K. WILSON.

E. McD. JOHNSTONE.

Class 44.—Engravings, Drawing and Penmanship.

EIGHTEEN PREMIUMS.

3 Silver Medals.

15 Diplomas.

Consolidated with Class 43.)

Class 45.—Photography.

TEN PREMIUMS.

1 Gold Medal.

4 Silver Medals.

5 Bronze Medals.
(Consolidated with Class 43.)

DIVISION 9.

HORTICULTURE.

Class 46.—Plants, Trees and Flowers.

SEVEN PREMIUMS.

3 Silver Medals.

3 Bronze Medals.

1 Diploma.

And Three Hundred and Fifty-five Dollars in Cash.

JURORS:

E. J. WICKSON.

PROF. E. H. HILGARD.

A. C. ADAMS.

MRS. A. L. MANN.

MRS. CHAS. FARNAM.

Class 47.—Fruit.

SEVEN PREMIUMS.

1 Gold Medal.

3 Silver Medals.

3 Bronze Medals.

And One Hundred and Sixty-Five Dollars in Cash.

(Consolidated with Class 46.)

REPORTS OF THE JURORS

UPON THE

VARIOUS ARTICLES EXHIBITED

AT THE

SEVENTEENTH INDUSTRIAL EXHIBITION.

The recommendations made by the Jurors and addressed to the Board of Managers, as to what the Premiums should be, have been omitted from the Report. The awards, as made by the Board, are printed in Italics, as is all other language not used by the Jurors. For full list of Articles Exhibited see alphabetical list of Exhibitors.

CLASS I.—STEAM ENGINES, BOILERS AND APPLIANCES.

Your Committee appointed to award premiums in Class No. 1, beg leave to submit this their final report:

1st. Vertical Engines and Boilers combined in motion. The competitors were J. Hendy and W. H. Ohmen. Having no facilities at our command to determine by a scientific test the amount of duty performed, compared with weight of fuel used, your Committee selected the following competitive points upon which to base their estimate of superiority:

Design, workmanship, steadiness at high piston speed, and adaptability to general use. And after a careful, thorough and impartial inspection of each engine exhibited, your Committee were unanimous in recommending the award to W. H. Ohmen.

Silver Medal.

2d. Vertical Engines in motion.

The competitors were J. Hendy, W. H. Ohmen and J. B. Jardin; and for the same reason as above, your Committee also recommend the award to W. H. Ohmen.

Silver Medal.

3d. Hoisting Engines and Boilers combined.

W. H. Ohmen being the only exhibitor of this class of Engines, we recommend that he be awarded a

Bronze Medal.

4th. Straw-burning Engines.

As Messrs. Hawley & Bro. were the only parties to enter for competition, we recommend that they be awarded for the Rice Straw-burning Engine a Silver Medal.

5th. P. H. Jackson & Co.... Device for the more complete combustion of coal.

This device merits more than a passing notice. It was the only device of the kind on exhibition, and could properly be classed as a Smoke Consumer. Your Committee gave it as thorough an investigation as the means at their command would permit, and was satisfied that there had been a step in the right direction.

Mr. P. H. Jackson, the Inventor, proposes to return the unburnt gases to the furnace and supply them with the necessary amount of oxygen for their combustion, and at the same time introduce sufficient fresh, but hot, air for the combustion of the coal on the grate.

Your Committee were aware that to test what was claimed by Mr. Jackson, or to thoroughly comprehend the value of this device, it would require a very scientific and elaborate course of experiments; but to stimulate further investigation of so important a subject, we would recommend an award.

Silver Medal.

6th. For Waters' Steam Engine governors, Flanged Globe-valves and Safety-valves, your Committee would recommend a premium to W. T. Garratt.

Bronze Medal.

7th. Weed & Kingwell......For the best Tallow Inbricator for Engine Cylinders.

Diploma.

8th. Lewellyn Steam-Heater and Condensor Co., (no competitor.)

Diploma.

9th. Central Gas-light Co...... Otto Gas Engine, (no competitor.)

Bronze Medal.

10th. Central Gas-light Co.........For Caloric Engine, (no competitor.)

Bronze Medal.

11th. Occidental Foundry......For the best Grate Bar, California Make.

Diploma.

Remarks—Apart from the foregoing, there were a few exhibits upon which your Committee declined to make any recommendation; they possessed neither merit or novelty, and it is supposed by the public that a premium is indicative of merit, and as said premium is always used for advertising purposes, the public is deceived thereby, and the deception apparently indorsed by the Mechanics' Institute.

Respectfully submitted,

G. L. PIERCE,
WM. H. BIRCH,
Committee.

CLASS II.—HYDRAULIC MACHINERY AND STEAM PUMPS.

Note.—It will be observed there are three reports by this Committee, one signed by all three; then a majority and minority report on Steam Pumps. Much time and labor was given by the Committee in their examination, it extending over a period of three weeks. During the working test of Steam Pumps, Mr. E. H. Thompson, one of the Jurors, met with a painful accident, which confined him to his room for a number of months, and for a time threatened to be very serious.

We, the Committee, selected by your honorable body to test and report on Class 2, (Hydraulic Machinery, etc.), beg to submit the following as a partial report:

- W. T. Garratt & Co.....The Worthington Water Meter (Eastern Invention)

 Best in the market.

 Bronze Medal.
- H. C. Langrehr Ship Pump (Cal. Invention) Simple and efficient. Silver Medal.

- Clott & MesseDeep Well, Fly-Wheel Pump (Cal. Invention)
 For their exhibit, and the mechanical design (not entered for competition)
 we beg to recommend an award.

 Silver Medal.

Silver Medal.

Wm. F. Toothaker.....Pneumatic Counter-Balance for Pump Rods of Deep Wells.

Latest California invention.

Silver Medal.

M. Arnold, Chairman.

C. A. BYERS,

E. H. THOMPSON.

REPORT ON STEAM PUMPS.

GENTLEMEN:

Your Committee on Class 2, Division 1, report as follows, on Premium No. 19: "For the Best Steam Pump, Direct and Double-Acting, of California make, in motion."

The exhibit of Steam Pumps was large, and creditable to the manufacturers.

Two different patents were represented, both Californian inventions, to-wit:

The Hooker Steam Pump, exhibited and manufactured by Mr. W. T. Garratt.

The Dow Steam Pump, exhibited and manufactured by Messrs. Goss & Dow.

We examined into the merits of the two Pumps with a view to ascertain which was the best Pump for general purposes and practical working, and, in order to satisfy ourselves on these points, we required the manufacturers to furnish a Steam Pump, of their own make, of equal dimensions and capacity, and we have subjected them to several practical tests in order to determine. We have come to the conclusion that the Hooker Steam Pump possesses the highest merit.

- 1st. Its valve motion is positive and reliable in its action.
- 2d. It is simple, compact, not liable to get out of order, and none of its working parts are exposed outside to injury, being entirely contained in the steam-chest and cylinder.
- 3d. It requires no extra care or lubrication-points which we deem very valuable.
- 4th. The Hooker Steam Pump possesses the most effective cushion on exhaust steam, thereby causing the Pump to work smoothly and without jar, allowing the water valves to seat quietly at the end of each stroke when working under a heavy pressure. Also insures perfect safety in case of the accidental breaking of the water-pipes or other causes.
- 5th. We further eonsider the Hooker Steam Pump the best, on account of its simplicity, construction, durability, reliability and economy in running for all kinds of work. It has less outside working parts to be injured by falling stones or dirt in mining works, or exposed to the dust and grit of the engine or boiler rooms, than any other Pumps.
- 6th. We do not consider, practically, from our data accumulated and compiled, that any extensive mathematical problems which we might submit will in any sense change to the scientific or mechanical world the foregoing facts. We therefore recommend an award to the Hooker Steam Pump.

Gold Medal.

Respectfully submitted,

E. H. THOMPSON, C. A. BYERS.

GENTLEMEN:

I have the honor to submit the supplement to our report on articles exhibited in Class No. II., being a report of the test of Steam Pumps (California make,) competing for premiums at the above-named exhibition.

The Committee, failing to agree upon a report, a test was considered necessary.

There were two pumps to be tested, both of San Francisco manufacture, the Hooker Pump, manufactured and exhibited by W. T. Garratt and the Dow Pump, manufactured and exhibited by Goss & Dow.

The first test not being satisfactory, Mr. Garratt was allowed to withdraw his pump and substitute a new one in its place. The following data will show for itself. Nothwithstanding the Committee agree upon the data, they cannot agree upon the results, and therefore I, as Chairman of that Committee, submit the following for your consideration:

Test of the Hooker and Dow Steam Pumps for comparative economy of Steam by Steam Cylinder displacement, each pump, size No. 7, being selected by the Committee:

	HOOKER.		Dow.	
Length of Stroke, nominal	$\begin{array}{c} 6 \\ 12 \\ 12^{5}_{16} \\ 1^{5}_{16} \\ {}^{9}_{16} \end{array}$	inches 4939 8838	$\begin{vmatrix} 6 \\ 12 \\ 13_{32} \\ 1_{\frac{1}{2}} \\ \frac{1}{2} \\ 27 \end{vmatrix}$	66

In the *Nozzle tests* the same water and steam pressure was maintained, as well as the same nozzles being used for each corresponding test, thereby making the useful work performed by each pump equal.

DATA.
STEAM PRESSURE EIGHTY POUNDS THROUGHOUT.

	Нооке	R.	·		Dow	٧.	
Diameter Nozzle.	Water Pressure per Square 1n.	Actual Length of Stroke.	No. o Strokes.	Diameter Nozzle.	Water Pressure per Square In.	Actual Length of Stroke.	No. of Strokes.
1 inch. 1 '' 1 '' 3 '' 5 '' Open discharge for Speed, 3½ In. Open to Atmosphere for Speed.		$egin{array}{c} 11^3_{16} \ 11^5_{16} \ 11^3_{8} \ 11^1_{16} \ 11^3_{8} \ 11 \end{array}$	148 166 184 116 32 460 614	1 inch. 1 " 1 " 3 " 4 3 " 8 Open Discharge 3½ inch Pipe. Open to Atmos phere for Spoed	Nominal.	$egin{array}{c} 12^{7}_{16} & & & & & & & & & & & & & & & & & & &$	150 174 108

TRIAL TO SHOW LEAKAGE OF WATER, PISTON AND VALVES.

Steam, 80 fbs.

Water Pressure, 220 lbs.

Time of Stroke, Hooker, 5 min. 27 sec.

Time of Stroke, Dow, 4 min. 35 sec.

It will be noticed that the leakage of the water piston and valves in the Dow Pump was considerably greater than in the Hooker, the latter being a new pump, built expressly for the test as allowed by the Committee. Therefore the Dow pump shows to have worked under a disadvantage in the water end, when under heavy pressure or slow speed, requiring an increase of piston travel to do the same work under those conditions. But the uniform advantage exhibited under all conditions in the economy of the steam end of the Dow, I respectfully submit, for your unbiased consideration, in tabular form, the results of the test by your Committee.* I will add that the workmanship of both pumps is faultless; that the Hooker has the advantage of being the most compact, taking less length then its competitor, while the Dow, having its valve motion placed between the steam and water cylinders, leaves nothing to be desired in point of accessibility. The controlling action of the valve motion of this pump is excellent, and also the general design.

I respectfully submit this minority report on Steam Pumps to your honor able body, and believing justice will be done the winner, do hereby recommend that the award be given to the Dow Pump as being the Best Direct Acting Steam Pump, manufactured on the Pacific coast.

(Signed,)

M. ARNOLD,

Chairman of Committee on Class No. 2.

^{*} See next page.

Water Cylinder Displacement in Cubic					t: Di			2		,	33587.3887 143861.8317	157497.675	64764.6073 185653.8006	26835.1718 242262.2389
Difference, being Waste Steam Space not traversed by Piston, In Cubic Inches.	13045.5365	8572.6159	13038.7108	8365.7542	13434.9555	7591.0187	9599.1683	6543.9815	2803.8168	2479.4419		27872.514		
Total Volume Steam Cylin- der Space in Cubic Inches.	128956.1018 142001.6383	7076 134939.3235	146146.0409 159184.7517	154510.6757	163010.7939 176445.7489	.3652 179232.3839	111237.5273	111247.6865	30686.2172	33992.3486	407526.9835 441114.3722	473832.739	524027.1852 588791.7925	685974.0791 712809.2509
Actual Yolume Steam Cylinder Displacement in Cubic Inches.	128956.1018	126366 7076	146146.0409	146148.9215 154510.6757	163010.7939	171641.3652	101638 359	104703.705	27882.4004	31512.9067	407526.9835	445960.225 473832.739	524027.1852	685974.0791
Difference being Waste steam space in inches not trav- ersed by Piston.	167.5	1739.84375 110.53125 126366	166.	107.8125	172.5	97.875	123.25	84 375	36.	31.96875	431.25	359.375	805.875	346.
Greatest Possible Travel in Inches.	1823.25	1739.84375	2043.875	1992.1875	2265.5	2310.9375	-1428.25	1434.375	394.	438.28125	5663.75	6109.375	7559.875	9190.625
Actual Travel in Inches.	1655.75	1629.31250	1877.8750	1884 . 375	2093.	2213.0625	1305.	1350.	358.	406.3125	5232.5	5750.	6754.	8844.625
Actual Length of Stroke in Inches.	11.1875	12.4375	11 3125	12.5625	11.375	12.71875	11.25	12.5	11.1875	12.3125	11.375	12.5	11.	692 12.78125 8844.6
Strokes per min.	148	131	166	150	184	174	116	108	32	33	460	460	614	695
Name of Pump.	HOOKER	Dow	HOOKER	Dow	Ноокев	Dow ,	Ноокев	Dow	Ноокев	Dow	Ноокев	Dow	HOOKER	Dow
Kind of Test.	1 inch Noz-	Pressure.	1 inch Noz-	Pressure.	1 inch Noz-	Pressure.	% inch Noz-	Pressure.	% inch Noz-	Pressure.	Open discharge on Water,	Steam 80 fbs. Open Throttle.	Open discharge On Air,	Steam 80 Hs. Copen Throttle.

CLASS III.—Machinists' Tools and Metal-Working Machinery.

Your Committee, appointed to examine Class 3, beg leave to submit the following:

- C. F. Marwedel......Best Display of Machinists' Tools

 Diploma.
- J. A. Studabecker......Tailors' Square, combined with sweeps or curves

 Diploma.
- W. T. Garratt.... Anderton's Improved Furnace and Forge Fan-Blower The principal points in this invention consist of two supplementary Fans, made right and left hand, and placed on each side of the Blower, which feeds the air into the Blower, and thereby increases the pressure. It is simple in construction, and not liable to get out of order.

 Bronze Medal.
- Abner Doble......Best General Display of Blacksmiths', Miners' and Stone-cutters' Tools.

Particular attention is called by your Committee to the improved Tuyere Irons, and also to Drilling Machines.

Silver Medal.

Silver Medal.

J B. Jardine.....Best Power Shears and Punching Machines, and Best General Display of Boiler Tools.

Silver Medal.

John Wright......For Improved Pick, of California make, the Committee would recommend a

Diploma.

- San Francisco Tool Co....Best Combined Shaper and Planer, of a new and novel construction, namely:
 - 1st. The tool moves at a uniform speed for all kinds of work.
- 2d. It works without noise, is durable, well provided against wear, and easily accessible.
- 3d. It is capable of doing well a great variety of work, both planing and shaping.
- 4th. The great range of its work—being adapted to plane from 36 inches wide by 19 feet long, to a single cut three-fourths of an inch long.

Bronze Medal.

San Francisco Tool Co......Best Gear Cutter and Milling Machine Simple in design, composed of less parts than any others, and the most practical machine built for all classes of Spur and Bevel Gearing.

Bronze Medal.

San Francis o Tool Co......Best Combined Drilling and Boring Machine Of new and novel construction, consisting of both vertical and horizontal spindles, two tables, one with a vise one to revolve, and all working parts enclosed and simplified.

Bronze Medal:

San Francisco Tool Co......Best Lathes, 25 in., 30 in., 17 in., 16 in. swing

All these Lathes have a new and convenient method of driving a screw feed with friction clutches, and at the same time have less parts than ordinary lathes. The gearing is very heavy and strong, and designed to cut a screw from 5 to 18 threads with the change of a single wheel. All are fitted with compound rests.

Bronze Medal.

San Francisco Tool Co.....General Display of Home-made Machinists' Tools
And the best and most valuable display in Class 3. Your Committee unanimously recommend the highest award.

In making this recommendation, your Committee desires to call special attention to this exhibit—the first of its kind ever made in our State. It marks a new advance in home industries, and should have all the assistance and support that lie within the province of the Mechanics' Institute.

The Shaper and Planer, Gear Cutter and Milling Machine, Drilling and Boring Machine, were all invented, patented and built in this city, and with the Lathes, Drills, etc., combine more new and valuable additions, which facilitate the construction of machinery, than are offered elsewhere.

Gold Medal.

IRVING M. SCOTT, Chairman. SAML. DINSMORE, JAMES PATTERSON, IRA P. RANKIN,

Committee.

CLASS IV.—WOOD WORKING MACHINERY.

Your Committee, to whom was referred the question of awards in Class 4, beg leave to report that after having carefully examined the different articles we have concluded to recommend the following exhibits:

Pacific Saw Manufacturing Company...General Display of Cutters for Wood-Working Machinery.

This exhibit, occupying a wall space of 22x60 feet, is one of the finest displays ever shown in San Francisco of every description of saws and cutters for wood-work. In the opinion of your committee, it is well worthy of the first premium in this Class.

Gold Medal.

Smyth & Watson......Tree Feller and Log Saw

	. Silver Medal.
Geo. Bull & Co	Portable Saw Mill, in Motion Silver Medal.
John Driver	Rotary Mortising Machine Diploma.
John Driver	•
Edward W. Tifft For ingenuity and	taste in arranging exhibit of Saws and

Respectfully submitted,

WM. HAMMOND,
GEO. L. HULL,
OSCAR LEWIS,
Committee.

CLASS V.—Printing and Miscellaneous Machinery.

Your Committee appointed to examine articles in Class 5, also in Classes 7 and 9, after due examination, would report that among the many and various articles exhibited, we deem the following as especially worthy of mention, and of such award as the Institute may see fit to give:

Phelps, Foster & Co......Renovator for Carpets, etc. (Couch's Patent ") From specimens of work shown and testimonials, this invention seems to be of much value, as saving for use much of the carpet that is now thrown away on account of being badly soiled. The process not only cleanses the carpet, but restores the colors to nearly their former freshness, and at a cost but little more than charged for beating.

Silver Medal.

Silver Medat.

Silver Medal.

Durkee & Moore.......Wire Coiling Machine for making Wire Mattresses

Diploma.

George Spaulding & Co Cylinder Gordon Printing Press, in operation This press was in active use during the Fair, for printing the Fair Daily, a newspaper published in the building by sanction of the Board of Managers. It was always interesting to witness the working off of the evening edition and the eagerness with which visitors strove to get a copy for perusal or preservation.

Respectfully submitted,

OSCAR LEWIS,
T. E. KEOUGH,
Committee.

CLASS VI.—MINING MACHINERY AND APPLIANCES.

The undersigned, your Committee on Machinery for Crushing Ores, Concentrators, etc., designated as Class 6, beg leave respectfully to report:

That in accordance with the written notice received from your Secretary, the Committee held its first meeting at your Pavilion on Saturday, September 2d, 1882, at 9 o'clock P. M., and organized by the election of J.R. Scupham as Chairman and A. Halsey as Secretary of the Committee.

The schedules of machinery entered in Class 6 were submitted by your Secretary to the Committee and discussed.

The Committee then and there decided that entries No. 16, 38 and 154 only required inspection by the Committee.

That all other entries should be submitted to practical test, and with that view the Committee at once consulted with all the parties having machinery embraced in Class 6, and made a mutual arrangement to make a test of their several machines on Tuesday, September 12, 1882, at 1 o'clock, P. M., on rock to be furnished by the parties themselves.

On the day appointed your Committee assembled, according to the foregoing mutual arrangement, and, taking 1 ton of quartz, put the same through a Dodge Crusher, set ½ inch opening, and then after thoroughly mixing the crushed ore, weighed out and gave 500 pounds to each of the following machines:

F. A. Huntington, Rotary Mill, wet crusher; W. I. Tustin, Rotary Mill, dry crusher; A. R. Redstone, 8 Stamp Mill, wet crusher; J. B. Jardine, 2-Stamp Mill, wet crusher, being all of the machines desirous of making the test.

The results of this test we have tabulated and appended to this report.

A second trial was permitted between the Huntington Rotary wet crusher and the Redstone 8-Stamp wet battery, on the 16th of September, on 500 pounds of rock, which result is also embraced in the tabulated statement.

Arrangements were also made by the Committee with all those having Concentrators on exhibition, and desirous of having a test made of their respective machines, to have suitable ore provided and prepared for a test to be made on Thursday, September 14, 1882, at 1 o'clock P. M.

And at the appointed time the committee again met, and, having put through 1500 pounds of ore in W. I. Tustin's Dry Crusher, gave 500 pounds of the finely pulverized ore or dry pulp to each of the following Concentrators:

W. B. Farwell's Dry Concentrator, Patten Wet Concentrator, Triumph Concentration Co. Wet Concentrator, being all of the machines desirous of making the test.

The results of this test we have also tabulated and append to this report. The material used in making each test was as nearly alike, when given to each machine respectively, as the Committee could possibly make it.

From the tabulated results of the tests of Quartz Mills, it will be seen that the Huntington, Tustin and Redstone Mills each yielded a result of about 2½ tons per horse power per 24 hours.

That the Jardine Mill fell below this result was probably the fault in the management of it more than in the machine itself.

The above result would leave the choice between these machines to depend on the condition in which the pulp is required to be in for the subsequent process to be used in beneficiating the ore.

The trial of the Concentrators, however, shows decided advantages in favor of the Triumph machine.

The Farwell machine being a Dry Concentrator, has the peculiar advantage of being specially adapted to use in arid localities.

But where water can be obtained concentration can be much more perfectly effected, as appears from the tests herein made and tabulated; and in such a situation the Triumph Concentrator is a most efficient machine.

Report of Working Test of Quartz Mills Pulverizers and Concentrators, Mechanics' Institute Fair, San Francisco, September 12th, 1882, in Class 6.

MAGEINE TESTED.	Description.	No. and Weight of Stamps.	Horse Power.	Speed or Drop per minute.	Pounds Ore Worked.	Time. H. M·	пээтэг.оИ	Rate per 24 Hours. Tons.	Drop in Inch's	Rate per Stamp or Roll.	Remarks.
	Rotary	Three	9	100	200	25	Slot 40	14_{5}^{2}		4_5^4	And 2.2-5 tons per Horse Power; Second Trial Sept. 16th, 1882
F.A.Huntington	Wet Crusher.	or 200 lbs.	9	110	. 500	191	Wire 40	18.46			and 3.07 tons per horse power.
W. I. Tus tin	Rotary Dry Crusher.	1 Roller 470 lbs. and 1 rol'r 340 lb	Ha	36	200	1 39	40	3 159		1 809	And 2.424 tons per Horse Power.
	Rotary Wet		67	08	500	52	Slot 40	6,923	4	. 100	And 3.43 tons per Horse Power: Second
A. K. Kedstone	and battery	245 lbs.	2 7	96	200	$45\frac{1}{2}$	wire 40	7.91	4	1 977	Trial made Sept. 16th, 1882, and 3.955 tons per Horse Power.
J. B. Jardine	Wet Stamp Mill and	Two		06	458	2 06	40	2 617	ಸಾ	1 308 1 000	And 1-308 tons per Horse Power.
)	Battery.	$\begin{bmatrix} 200 \text{ lbs.} \end{bmatrix}$,								

Report of Working Test of Wet and Dry Concentrators at Mechanics' Institute Fair, San Francisco, September 14, 1882, in Class 6.

Continuation of Working Test of Dry and Wet Concentrators at Mechanics' Institute Fair, San Francisco, September 14, 1882, in Class 6.

M. correct Present	ASSAY O	Assax or 500 lbs. Pulp.	.Pulp.	₹	SSAY	ASSAY OF CONCENTRATIONS.	TRATIO	NS.		Assay	of Ta	Assay of Tailings.	Per ct. of	
MACHINE LESIEU.	Gold.	Gold. \$ Cts.	Silver.	Gold.	Gold & Ct	Silver.	Silver	Total 2000	for lbs.	Gold.	Gold.	Gold. Gold. Silver. Gold. Gold. Silver. Silver Total for Gold. Gold. Silver. oz. dec. \$ Cts. oz. dec. \$ Cts. \$ Cts. \$ Cts.	Concentrations.	in Con- centrations.
FARWELL MACHINE.	10	2 06 Trace.	Trace.	10.	8 26	6 10	65		8 91	5 100	1 0	I 03 Trace.	9.1%	39.3%
PATIEN'S MACHINE.	15	3 10	Trace.	35 100	7	$23 \begin{array}{c} 7 \\ 10 \end{array}$	06		8 13	10	2 00	2 06 Trace.	3.35%	
TRIUMPH MACHINE.	15	3 10	10 Trace.	3,6	74 42	23 30 10	4 78 79 20	79	20	75 1000	1 59	Trace.	2%	51%
TUSTIN SAMPLE.		2 06												

The Committee would therefore recommend accordance with your printed schedule in Class 6:	the following awards, in
Best Ore Breaker in operation	M. B. Dodge
,	Silver Medal.
Best Rock Drill	
DOST HOOK DITHE	Silver Medal.
Best Air Compresser	
Dest All Compresser	Silver Medal.
Best Quartz Mill	A D Podstone
Best Quartz Mill	
D (O D)	Silver Medal.
Best Ore Feeder	•
	Bronze Medal.
Best Almalgamating and Crushing Pan	
	Silver Medal.
Best Dry Crushing Mill	W. I. Tustin
	Silver Medal.
Best Wet Concentrator	Triumph Con. Co.
	Silver Medal.
Best Dry Concentrator	W. B. Farwell
, , , , , , , , , , , , , , , , , , ,	Silver Medal.
Improved Tappet	
**	Bronze Medal.
All which is respectfully submitted.	
	J. R. Scupham,
- 4	W. J. Cellins,
,	W. N. French,
	ABRAHAM HALSEY,
	Committee.

CLASS VII.—LAUNDRY MACHINERY.

Your Committee on Class 7—Laundry Machinery—would report that the display of those articles was much less than usual, owing, perhaps, to the fact that the number of United States patents on washing machines is about 1,600, and each year the labor of inventing something new increases. We make note of the following in this class:

Sarah Martin......Ironing Table
This exhibitor was indefatigable in her explanations and efforts to impress
visitors with the good qualities of her really useful and labor-saving invention.

T. E. KEOUGH,
OSCAR LEWIS,
Committee.

CLASS VIII.—Fire Apparatus and Appliances.

Your Committee on Class 8 would report that we have examined the articles exhibited in this Class, and find as follows: David Kerr......Hose Cart This is a fine specimen of workmanship combining lightness with strength, well-finished and having the latest improvements. Silver Medal. J. A. Griswold...... Fire Escape In accordance with your premium list we recommend an award. Bronze Medal. W. T. Garratt.....Fire Hydrant H. N. Cook...... Fire Buckets and Hose Pipe These were made of Leather, strong and serviceable. Diploma. Respectfully submitted. JAS. McCORD, Chairman. CLASS IX .-- MARINE. We, Jurors on Class 9, would report that but few articles enumerated in the premium list were exhibited, thus making our labors comparatively easy. A. C. Watts......Model of a Floating Dry Dock This exhibit, about four feet square, seemed to work very satisfactorily, raising miniature vessels of considerable weight with ease. We had no means of seeing the principle carried out in raising ships, but should judge the invention to be one of merit and of great importance to this coast, where docks for repairing vessels are so scarce. Bronze Medal. Capt. George Cumming......Model of a Four-masted Ship This elegant piece of workmanship was about four feet long, and perfectly finished in every part, the spars being of ivory, the metal work and rigging being of coin silver. The maker devoted much of his time for six years in its construction. It is, without doubt, one of the finest models of a ship ever made. Sitver Medal. J. W. E. Howe.... Model of a Ship in the Arctic Regions This was intended to depict a scene in the Far North, with a ship in winter quarters frozen in. The name of "The Jeannette" seemed far-fetched, as, at the time it was made, no one here knew where that ill-fated vessel was. It was a very pretty model, however, and worthy of recognition. Diploma. Robert Walkingshaw...... Automatic Port Window "Those who go down to the sea in ships," and the steward in charge of

state rooms, will appreciate this invention, as it is claimed to entirely prevent the sudden entrance of water through a port hole when inadvertantly left open, if a sudden storm arises or an unusually large wave comes along. The window is raised and fastened by a peculiar catch, which can be so set that only when the ship acquires an undue oscillating motion it will close, and fasten automatically. Therefore, in fair or moderate weather the window can be opened, and if the temperature will admit, left so until the sea gets rough enough to close it, which is intended to be just before the waves are high enough to wash in. The window on exhibition was full size, and worked satisfactorily.

Diploma.

Louis Brell......Model of a Man-of-War

This was another fine model, and, as some great man has said, "In time of peace prepare for war," we recommend that this warlike piece of work receive a premium.

Diploma.

OSCAR LEWIS,
T. E. KEOUGH,
Committee.

CLASS X.—Sewing Machines, Knitting Machines, Braiding Machines and Looms.

Your Committee on Class 10 beg leave to submit the following:

F. Chopi Darning Machine
A new and ingenious invention for darning stockings and knit goods.

Diploma.

Diploma.

> Mrs. D. H. Edwards, M. Lachman, David C. Smith,

> > Committee.

CLASS XI—AGRICULTURAL MACHINERY.

Your Jurors on exhibits in Class XI. have examined the same, and recommend awards to the following:
D. M. Osborne & Co Display of Agricultural Machinery Gold Medal.
D. M. Osborne & Co Self-binding Grain Harvester in operation Silver Medal.
D. M. Osborne & Co
Hawley Bros. Hardware CoBuckeye Gang Plow (Pac. Coast Manuf.) Silver Medal.
Hawley Bros. Hardware Co
Hawley Bros, Hardware Co
Hawley Bros. Hardware CoSulky Plow Diploma.
Hawley Bros. Hardware Co
Byron Jackson
Byron Jackson Derrick Fork Hoist Silver Medal.
Hawley Bros. Hardware Co
Hawley Bros. Hardware Co
Judson Manufacturing Co
Geo. Bull & Co
Geo. Bull & Co
Geo. Bull & Co
Geo. Bull & Co
D. M. Osborne & Co
D. N. Hawley Creamer, Churner and Butter Worker
R. G. Brush "California Chief" Grain Cleaner Bronze Medal.

T. A. Mudge	"Wheeler" Fruit Canner
	Bronze Medal.
Batchelor & Wylie	
	Diploma.
W. F. West	Grain Chopper and Grange Grist Mill Bronze Medal.
A To Touroggo	Harrow
A. La seulesse.	Diploma.
Hawley Bros. Hardware Co	
	Bronze Medal.
Hawley Bros. Hardware Co	"Champion" Fan Mill
	Bronze Medal.
Hawley Bros. Hardware Co	
	Diploma.
J. S. Woolsey	Cheese Vat and Lawn Sprinkler
	Diploma.
John Wilz	Pruning Shears
77.01	Diploma.
D. M. Osborne	
	Diploma.
	G. W. Fogg,
	IRVING M. SCOTT, N. W. SPAULDING,
	Committee.

CLASS XII.—Iron, Steel and Lead.

Your Committee on Class 12, after a careful examination, would report as follows:

We find the exhibit this year to be exceedingly interesting, and samples of products that are of the utmost importance to this coast, and equal in every way to the best manufactured elsewhere.

Selby Smelting and Lead WorksLead Pipe, Sheet Lead, Shot, etc.

This well-known Company, as usual, had a fine display of their products. With facilities for the reduction of ore and the most improved machinery, their superior manufactures and extensive works are a pride to this city, and we recommend for them the highest award.

Gold Medal.

Abner Doble..... Cast Steel Bars, flat, round and square Diploma.

W. T. Garratt....Tin, Copper and Antimony in Pigs, Phosphor Bronze, etc.

This exhibit of Metals used in his extensive foundry and works was interesting, and we trust the time is not far distant when this coast will be able to

smelt them at a profit, as the supply is inexhaustible. Phosphor Bronze is an alloy now extensively used throughout the world. Many of the European powers have conferred upon the inventors the highest honors attained by civilians. It was patented in the United States a few years ago and manufactured only at the works in Philadelphia. No other metal combines in so high a degree the conditions of toughness, rigidity, hardness and great elastic resistance.

Diploma.

California Iron and Steel Co......Pig Iron, Ore and Casting

This exhibit consists of fine grades of Charcoal Iron in the pig as manufactured in the Company's works at Hotaling, Placer County, California, accompanied with samples of the ore from which the iron is made; also heavy car wheels, made from numbers three and four of this iron, by the Central Pacific Railroad Co. at Sacramento, and horse-car wheels of the same material made by Steiger and Kerr of San Francisco. Both makers exhibit wheels entire as well as broken, the fracture of which shows the chill to be of the most superior quality. The Union, Fulton, Golden State and Miner's and the Architectural Foundries also use this iron for work requiring a first-class quality of iron. The Judson Manufacturing Company use number two and three for making malleable iron, and numbers three, four and five for making rolls for rolling bar and plate iron; numbers one and two are used for foundry purposes. The universal testimony is that the iron of all grades is superior to any brand that comes to this market, and it will take the place of Salisbury for all car wheel or chilling purposes. This, its first exhibit in quantity, backed up with testimonals from the users of six thousand tons, justifies us in the opinion that the success of making pig iron of the best quality has been successfully accomplished, and this most important industry, added to the permanent wealth of the State and the effect upon other industries, cannot be over-estimated, as the certainity of a supply of first quality of pig iron forms the basis upon which to start manufactories at home, which class of goods have heretofore been imported. Based upon the supply of the quality of this iron, a Nail Mill, Tack Foundry and a finishing Nail Factory, a Malleable Iron Factory, a Rolling Mill and Steel Works are under active construction in Oakland at present.

The mine is located at Hotaling, Placer County, four miles from Clipper Gap Station, on the Central Pacific Railroad. It was first put in blast April 24th, 1881. The mine covers an area of one mile square, and furnishes Hematites and Magnetite ores, with some Chrome, all the ore being of high grade, free from Sulphur or Phosphorus, and at the deepest working of the mines contains 79 to 81 per cent. of iron; limestone lies parallel to the ore vein and readily fluxes with the metal. The fuel used is charcoal and is made on the Company's lands; they own nine thousand acres of timber lands. This enterprise was started by Egbert Judson, A. P. Hotaling and Irving M. Scott, and has since been incorporated as the California Iron and Steel Co.

Your Committee feel justified in giving the above facts by the magnitude of the enterprise and the great influence its success will exert upon the mechanical industries of the Pacific Coast, and we do most cheerfully recommend the highest premium for the most valuable native product exhibited in the Fair.

Gold Medal.

Betts Spring Co.....Locomotive, Carriage and Car Springs

This business, like many other of our leading industries, commenced in a very small way. It was in 1868 that Mr. William M. Betts, the President of the Company, arrived in San Francisco, and began to make Carriage and Wagon Springs, doing most of the work with his own hands, assisted by one helper. It was soon noticed that the Springs made by Mr. Betts, in style and workmanship, excelled the imported ones, and even at that early day the "Betts" Spring began to win the enviable reputation which has since extended over the entire coast. In April, 1873, the Betts Spring Company was incorporated, since which time the business has become an important industry, giving employment to from 15 to 20 men, who, by the aid of extensive and costly machinery, work up annually upwards of 100 tons of steel into Springs worth over \$40,000. The reputation of the "Betts" Spring is now established in every town on the coast, and orders are received not only from all parts of this and neighboring States, but from the Hawaiian Islands, Mexico and British Columbia, and this extensive business is the result solely of the superior quality of the goods manufactured by the Betts Spring Company. Owing to the strict and constant supervision necessary to maintain their high standard of workmanship, requiring more than ordinary care and skill in their workmen, they cannot sell their goods at the same price as the imported Eastern Springs, in the manufacture of which the same care is not used. Unceasing vigilance is exercised, both in the selection of the best brands of steel and in the adoption of improved methods of manufacture.

The most important improvement in Spring making of the last twenty years is undoubtedly the "side lip" as adopted and perfected by the Betts Spring Co. This "side lip" is a small lip or 'projection thrown out at each end of every leaf, and bent over the leaf below, to keep it in place. This takes the place of the old-fashioned "nib" or "slot," which are used for the same purpose of keeping the leaves in place, but which, by weakening each leaf over the nib or slot, make the Spring liable to break there. The side lip obviates this danger, and by leaving every leaf a perfect and flawless piece of steel, with no weak spot, reduces the chance of breaking to a minimum. It is evident that the Betts Spring Company is destined to grow with the State, and in the near future to be one of our most extensive, as it is now one of our most flourishing and promising, business houses.

Silver Medal.

Occidental Foundry...... Car Wheels and Iron Castings

This exhibit consisted of two distinct classes of Iron Castings, namely, Car Wheels and Rough, or, more correctly, Unfinished Castings. These two classes differ in regard to the purposes for which they are made, the nature of the iron used in their manufacture and the points of excellence which would constitute them first-class Castings. The conditions necessary in a good car

wheel are: A proper proportion of chill to size of wheel; second, Extreme hardness of the flange and thread to resist the wear caused by friction when in contact with the rail or brake shoe; and, third, Softness and toughness in the arms and backing of the thread to resist strain in cooling and while in use, and also to support the hard chilled portion of the wheel, which must necessarily be brittle. The broken sections of the wheels show that these requirements have been successfully met; the soft portion of the wheel yielding readily to the file, while no impression can be made upon the chilled portion. It is also worthy of notice that these wheels are a California production throughout, the iron used being procured from the California Iron and Steel Company's works at Hotaling, Placer Connty. These wheels have stood the test of actual use during the past two years on many of the street and steam railroads of the State, and a large number have also been shipped to New Zealand for roads in that country.

The samples of the Pump Castings are worthy of notice as being fine specimens of intricate foundry work. They are free from all flaws or blow-holes, which would unfit them for work under high pressures, and are cast so clean and true to pattern that the machine work required to complete them is reduced to the lowest possible point.

Silver Medal.

California Wire Works....Iron, Steel, Copper, Tinned and Galvanized Wire Rope, etc.

The manufacture of Wire Rope on the Pacific Coast dates back to 1856, when Mr. A. S. Hallidie made a wire rope 1300 feet long on the Middle Fork of the American River, at American Bar, near where he was mining and where he extemporized the machinery, carbonized the wire, and manufactured this wire rope for the Bay State Quartz Mining Company for a gravity railway, to deliver the quartz from the mine to the mill. After which this gentleman established works on a small scale in San Francisco the following year, and gradually built up the business until he disposed of it to the California Wire Works.

At the present time the business of making Wire Rope has become one of the important industries of this Coast, and the capacity of these works is equal to any concern known.

The manufacture of Wire was started by this same gentleman in 1861, and continued on a small scale until the Pacific Wire Mill was organized in about 1870. These works continued up to about 1877, when, unfortunately, they were destroyed by fire, and, not finding the business profitable, they discontinued and sold their remaining effects to Mr. Hallidie, who erected another mill the following year. This was not found very profitable, and it was a question with him whether to discontinue or put up a more complete and extensive mill. In order to determine, he visited the Wire Mills of the Eastern States and Europe, and on his return decided to put up a new mill with all the modern improvements. This mill he constructed about three years ago at an outlay of \$45,000, and it has been doing a large and profitable business, having a capacity of 3,500 tons per annum.

This wire mill has been purchased likewise by the California Wire Works, and extensive additions are being made to it, as well as the Wire Rope Works. By the combination of the Wire Mill and the Wire Rope Works, the raw material is first made into wire and then into rope. About 4,000,000 pounds of iron and steel are at present annually consumed for this purpose.

From a small beginning, consuming not over 50 tons of material per annum twenty-five years ago, this branch of industry, by the patient perseverance of a man having confidence in the future, has grown up to consume over 2,000 tons annually, and gives employment to 125 men, finding bread for 600 mouths, and adding materially to the wealth and contentment of the people of the State.

Gold Medal.

Most respectfully submitted by the Committee,

CHARLES L. BIGELOW, ISAAC H. COREY, ALBERT FOLSOM.

CLASS XIII-COOKING, HEATING AND VENTILATING.

This firm makes a fine display of Oil Stoves for cooking and heating purposes, they being of superior make and handsome design. The Adams and Westlake Stove is one that looks and works well, with handsome furniture, and is non-explosive. The exhibitor claims that it is as near perfection as well can be. The firm is entitled to great praise for their enterprise and in keeping up with the times in their line of business.

Diploma for best Display.

W. W. Montague and Co...... Fire-place Heaters
These heaters, in connection with their mantels, was one of the finest displays of that kind of goods ever seen this side of the Rocky Mountains. The exhibit was worthy of a place in the Art Gallery.

Silver Medal.

Diploma for Winthrop Range.

Mrs. M. E. Spiers Heat Fender and Fruit Dryer This is a useful invention, intended to utilize the heat of an ordinary stove or range for drying fruit, etc.

Diploma.

Central Gas Light Co......Gas Stoves

This was a fine display, showing how well and cheaply gas can be used for heating and cooking, the latter being demonstrated each day by the baking of bread, meat, etc.

(See Class 38 for award to them.)

Jean Lanthaume
C. D. Harvey Hot Water Radiator and Furnace These Radiators are well adapted to public buildings and large dwellings, and of much merit. We regret they were not in practical working order.
A. B. Sanford Steam and Hot Water Heaters
These heaters are worthy of mention, and useful. Bronze Medal.
De Guerre & De Lano
E. Pander
Mrs. C. Woodruff
Oscar Levy
Adam Koch
Perry & Co
cal examination. Silver Medal for Best Display. Diploma for Flat Iron Heater.
Wiester & Co

ous gases; the evaporation of the water moistens and purifies the atmosphere. 3d. They are put together entirely with screws, making it easy to get into the oil tank or duplicate any part. Some of the Stoves we examined have devices to prevent the gases from exploding, which are very good; but with these Stoves no gas is found when the water pan is kept filled.

Diploma for Best Oil Stove.

Pacific Stove and Iron Works......Stoves, Ranges and Stove Ware

Owing to the fact that we are a new State, with but little encouragement from men of capital and short-sighted consumers, this exhibit is remarkable, showing that a spirit of enterprise is here that will eventually make this State one of the foremost in the Union.

The contributions of this Company, confined exclusively to the productions of their Foundry and Stove Works, 228 and 230 Main street, and the only industry of the kind in San Francisco, are highly commendable for their number and variety. The Stoves, Ranges, Hollow Ware and other articles, for smoothness, finish of the castings, and the excellence of the workmanship, compares favorably with similar Wares of Eastern manufacture.

This Company has manufactured about 2,000 Stoves and Ranges of different patterns and sizes, and now intend to introduce lines of Ranges, Cooking, Parlor and Office Stoves, specially adapted to the various needs of California and the Pacific Coast, and in furtherance of that design they have already manufactured and placed upon the market ten different sizes of Cooking Stoves and Ranges, having from two to six holes each, and twelve different sizes of Parlor and Office Stoves, coupled with a line of Hollow Ware, Dutch Ovens, Gem, Roll and Cake Pans in great variety. We most heartily recommend the highest award.

Respectfully submitted,

A. S. IREDALE, P. J. O'CONNOR,

Committee.

(Since signing the above, Mr. O'Connor states that he is not satisfied with the award to the Fairy Queen Oil Stove, and withdraws his recommendation.)

CLASS XIV.—GENERAL HARDWARE.

Your Committee, after examining the articles in Class 14, would recommend that awards be given to the following:

Liddle & Kaeding...... Guns, Pistols and Sporting Materials

Silver Medal for Best Assortment of Fire Arms.

Bronze Medal for Best Assortment of Fishing Tackle.

J. S. Benn...... Artificial Flies, Trout and Salmon Diploma.

Mrs. F. M. Truworthy	Stencil Plates, Stamps and Burning Brands Diploma.
	Little Giant," Lemon Squeezer Bronze Medal.
G. V. Blackman	Gonne's Patent Door Knob Diploma.
Frank Webb & Co	Rubber Stamps Diploma.

WM. M. BETTS, M. RUSSELL,

Committee.

CLASS XVI.—CUTLERY AND EDGE TOOLS.

We, the undersigned Jurors on Class 16, Saws, Edge Tools and Cutlery, have carefully examined the articles displayed at the Mechanics' Fair, and find a great amount of labor, ingenuity and skill displayed in the exhibit.

Pacific Saw Manufacturing Co......Saws and Edged Tools

This firm exhibits a great improvement in the method of grinding crosscut, pit and handsaws. Their saws are ground tapering, thinner on the back edge than on the tooth, thereby clearing themselves when cutting with less set than when ground in the usual manner.

The blades for butcher saws we put to a severe test by winding them around our hands, and when released they sprung back perfectly straight. The temper in these saws is perfect. They also exhibit quite a variety of pruning saws, with improvements thereon. The bow saw has a detachable blade, which, by a simple contrivance, can be adjusted to cut at any angle. Also the curved saws, which cut backwards.

Their display of edge tools, straight and curved, are fair samples of mechanical skill. The edge of steel being welded to iron, makes it so it can be straightened after being tempered, and less liable to break when in motion. We have also examined the Improved Steel Saw Arbor, the journal of which is oval-shaped, thus leaving a cavity on each end of the journal, which is filled with oil, making it self-lubricating, and so lessening the chance of heating.

We would recommend that the highest award be given to this firm for the "Best General Display of Saws," as provided for under Class 4 of the Rules and Premium List.

Gold Medal. (See Class IV.)

Also, that they have an award for the best assortment of Edge Tools, California make, as provided for in Class 16.

Silver Medal.

N. W. Spaulding Circular Saw with Inserted Teeth

The large circular saw exhibited by Mr. Spaulding we find perfect in every respect, the inserted tooth being dove-tailed on both edges and riveted

securely into place, making it impossible to get loose and fly out. The inserted teeth are made with round corners, thus rendering the saw less liable to crack or break than if made with square corners.

Silver Medal. (See Class IV.)

Cutlery.—It would seem that this time-honored trade, as shown at the 17th exhibition of the Mechanics' Institute of this city, had here reached a climax of perfection, which would render improvement almost superfluous. The history of human civilization and progress is more often illustrated by the condition of this art than by any other means. In fact, antiquarians, where every other vestige of a race was lost, have classified it by its cutlery. Hence, the accepted theories known as the Flint, the Bronze and the Iron ages.

The most critical part of the cutler's craft is the forging, and to master it without mould or measure, judging the heat as well, requires the eye of an artist and the nerve of a blacksmith. During a recent investigation of the British Parliament into the state of the arts, an English cutler made the following display of his skill: He took a bar of steel, and in presence of the committee forged with great rapidity a number of penknife blades, which he passed around as they cooled. The blades were then submitted to a microscopic test, and were found to be exactly alike in every detail of shape and size. He next forged a razor blade, and shaved with it, just as it came from the anvil.

The display of this firm has been the object of our closest inspection, and we find in it not only an exhibit of all that is excellent in tempering and finishing, together with chaste and durable adornment, but we also find a most commendable display of invention. They show, among many other interesting articles, a complete set of carvers, with every possible adjunct, such as skewer pullers and bone holders—the latter their own invention—and all of original and perfect design. This set is mounted in ivory, and sumptuously cased. Another set of equal merit is mounted in stag-horn, enriched with delicately carved medallions.

Too much cannot be said in praise of the well-directed afforts of this firm to take away the sting from the dreaded business of carving, and to enable one to carry it on in the spirit of the grace which generally precedes it.

Hunting Knives and small arms of the most tried and trusty temper, of well-balanced structure and solid grip, further attest the versatility of this firm in every branch of their trade.

We take pleasure in recommending for Messrs. Will & Finck awards for the best display of California-made Cutlery, and for the best Carving set.

Will & Finck also exhibit a full line of Horn Combs of their own manufacture. These are of perfect styles and bear the unmistakable impress of custom work in their general smoothness, strength of base and careful selection of material. This display especially commends itself to the Institute, whose great province it is to foster all new and useful enterprises.

Will & Finck are the Pioneers in this line, and find themselves able to compete in any market of the world where good work is demanded.

We commend this display as worthy of an award.

Gold Medal for Best Display of Cutlery.

Silver Medal for Best Carving Set.

Bronze Medal for Display of Combs.

Most respectfully we submit this, our report,

H. N. Cook,
Richard Young,
Committee.

CLASS XVII.—GRATES AND MANTELS—MARBLES, ARTIFICIAL STONE, EARTHENWARE, GLASSWARE, ETC.

Your Jurors, appointed to examine exhibits in Class 17, beg leave to submit the following:

Silver Medal.

Gladding, McBean & Co....Fire Brick, Drain and Sewer Pipe, Chimney Tops, etc.

Silver Medal for Sewer Pipe.
Bronze Medal for Chimney Tops.
Diploma for Fire Brick.

Robt. Skinner....Asphalt Paving Blocks of the International Pavement Company of New York.

These blocks have every appearance of being a most excellent material for the purpose for which they are designed. They are apparently hard and tough, and are said to be almost noiseless and to afford a fine foothold.

The blocks are also said to create no dust, a virtue which should make them especially appropriate to this city, in which prevailing high winds, during a large portion of the year, always causes an intolerable nuisance.

We cheerfully recommend the paving blocks to your consideration as worthy of special Honorable Mention.

Respectfully submitted,

JOHN WRIGHT, H. T. HOLMES, Jurors.

CLASS XVIII.—Brass Work, Gas and Lamp Fixtures, Plumbers' Goods, etc.

We, the undersigned Committee appointed to examine and report upon the Exhibits of Class 18, herewith take pleasure in submitting the result of our investigations: J. A. Griswold.....Lamp Filler This Lamp Filler is without doubt one of those ingenious and simple inventions which will be hailed with delight by every housekeeper. Silver Medal. Weister & Co..... Little Giant Water Filter We believe this possesses considerable merit and is worthy of special mention. Diploma. T. Ambron..... Model of Castle in Zinc This Model is quite a creditable combination of mechanical and artistic skill. Silver Medal. W. T. Garratt.....Brass Goods, etc. This exhibit reflects great credit upon both master and man, and is especially deserving of high commendations, not only for the artistic display, but for the great care bestowed on the finish of the most minute detail, which is only to be found coming from the hand of the true machinist. We regret exceedingly that this display was not in position on time, thereby debarring us from awarding the Premium, which otherwise it would have been our pleasant duty to perform. Silver Medal for Display of Bells. Weed & Kingwell...... Brass Work and Plumbers' Goods The Goods displayed by this firm are of a high order of workmanship and

speaks well for these enterprising machinists.

We recommend an award for Brass Work and Plumbers' Ware.

Gold Medal for Best Assortment of Brass Work.

Bronze Medal for Plumbers' Goods.

The Filtering Faucet is quite simple in its construction, and will, no doubt, prove a great benefit as a water filter.

Silver Medal for Best Water Closet.

M. Boesch Lamps and Reflectors
This display reflects great credit on the proprietors. You may find almost
every variety of Lamps and specimens of ornamental Copper and Zinc work
in this beautiful exhibit, and it is therefore worthy of the highest award.

Gold Medal for General Display.

Silver Medal to J. T. Titus for Best Sewer Trap.
Bronze Medal to W. Wilson for Best Basin Gas Trap.

Silver Medal.

GIRDER.—Various forms of cast iron Girders with wrought iron ties and struts has been from time to time constructed, but in no case have we met with such a successful combination of the two materials where such a marked advantage is taken of the greater resistance of cast iron to crushing, and of wrought iron to tearing than in the present instance. The most meritorious point in its construction is that the tie and arch are respectively in constant tension and compression, which we believe is almost impossible to obtain in any other form of Girder. The vast saving of material, the absence of all useless and damaging patch-work around the joints, and the great saving in cost over any other form of Girder will undoubtedly recommend it to the Architect and Engineer, and will, we believe, partially, if not entirely, supplant all other forms of Girder which enter into the construction of our most substantial brick buildings.

Silver Medal.

Respectfully submitted,

WILLIAM CURLETT,
RICHARD SAVAGE,
CHAS. R. STEIGER,

Committee.

CLASS XIX.—Carpenters' Joiners' Carvers' and Stair Builders' Work, Ornamental Glass Painting, etc.

Your Committee on Class 19, after giving a careful examination to the exhibits submitted to them, respectfully report as follows:

John Mallon & Son......Glass for Architectural Work

In this general display of stained, ground and bent Glass prepared for Architectural Work, we find some of the highest work of art, and of California production, which, if equaled, is not excelled by the finest work in that line of the old world. The process of producing such work, requires the genius, taste and long experience of a master hand, great care in the bending of large sheets of glass, and a masterly, artistic and delicate taste in the workmanship of cutting and embossing of the figures on plain and colored glass.

Gold Medal.

We would also most respectfully recommend an award for tand embossed Glass of California's best work.	he display of cut
tale direction of the first of	Silver Medal.
S. & G. Gump	home industry,
3	Silver Medal.
Louis DampfPicture Frames and	Passe-Partouts Bronze Medal.
Alex. Akstrand	Newell Post Bronze Medal.
J. R. Drew	Stair Work
This display is of excellent workmanship and design, and, i worthy of creditable mention.	$n \ our \ judgment, \ Diploma.$
J. W. Linney Two Paper Files a	and File Holders Diploma.
C. W. & G. M. Burr	Weather Strips
Your Committee consider them superior to any others is desirable in excluding dust in this climate.	n use, and very
donition in onorthing dust in this orimato.	Diploma.
Whittier, Fuller & CoPla	te Glass Mirrors
The grand exhibits of Mirrors by this well-known leading fit Coast as a home industry is of great merit and unequaled ex the judgment of your Committee, superior to any other work imported or found on this coast, and deserving of the highest	cellence, and in of the kind ever
Pacific Portable House Co Model of Pacific Portable	$egin{aligned} Ventilated & House \ Diploma. \end{aligned}$
W. H. SimmonsOne Pa	inted Table Top Bronze Medal.
J. Hanson Step Ladder and Ele	evator Combined Diploma.
Mrs. Theresa Corlett Ornam	nental Table Top Diploma.
McEachern & RoweLarge Gold Frame,	California Make Bronze Medal.
Sanborn, Vale & Co General Display of Mirrors and C. This was a very fine and creditable display.	Cabinet Brackets
Pacific Coast Screen Co	Window Screen
	Diploma.
James HatchFrame done on S	Shaping Machine Diploma.

PREMIUM LIST. 89
R. W. BrehmFancy Articles Turned from California Woods Very artistic and beautiful work, making a fine display of California industry. Bronze Medal.
California Glass Works
Scovern and McCallScroll Saw Work Diploma.
Respectfully submitted,
H. C. MACY,
Horace Fletcher,
P. R. CUNNINGHAM,
A. Wilkie.
Committee.
CLASS XX.—Musical Instruments.
OLASS AX.—MUSICAL INSTRUMENTS.
We, the undersigned Committee of Award in Class XX. of exhibits of the Fair, now in progress, having thoroughly examined the various instruments comprising said Class, beg to submit the following report and recommendations:
Statham Piano Co

forma-manufactured pianos. We cheerfully recommend for this company the award, commending the instruments highly both for brilliancy and power of tone and equality of touch. Aside from the genuine merit of the instruments, Mr. Statham deserves great credit for the unique and really artistic cases in which the display is made. Gold Medal.

Hallett, Davis & Co..... To this well-known firm of Boston we would recommend that an award be given for the finest display of Pianos, not of California manufacture. We would further recommend to your notice, as worthy of a special diploma, the patent appliance for raising the lids of square pianos, commending it as obviating heavy lifting, scratching of the wood, and jarring of the instruments.

Silver Medal for Display.

William West......Banjo, Home Manufacture This is a really fine Banjo of his own construction.

Silver Medal.

Brandlein & Scribold.....Zithers

These were of their own manufacture and fine instruments.

Silver Medal.

Respectfully submitted,

MRS. FANNIE A. LEALE, HENRY L. DAVIS, IRA P. RANKIN,

Committee.

CLASS XXI.—Vehicles and their attachments, Children's Carriages, Hobby Horses, etc

We, the Jurors in Class 21, after a long and careful examination, submit the following as the result:			
Studebaker BrosBuggies, Phaetons, etc. This was a very fine display, and we give it honorable mention.			
David KerrTwo-Horse Truck, Four-Spring Wagon, Milk Wagons, etc. Silver Medal for Truck. Silver Medal for Milk Wagon. Silver Medal for Four-Spring Wagon.			
M. J. McCueDisplay of Carriages, Buggies and Rockaways This we consider the best display of home manufacture, and recommend an award. Gold Medal.			
Jerry Lowney & SonDexter Buggies, Side-Spring Wagon, Milk Wagon and Coal Cart. Silver Medal for Coal Cart.			
O. F. Willey & CoGeneral Display of Carriages and Buggies, Imported Silver Medal for best display of Imported Vehicles.			
R. B. Woodward & Co			
Carville Manufactory CoBuggies, Rockaways, Phaetons, etc. Bronze Medal, best open Buggy.			
Ahlert Bros			
M. Kitzmuller			
Osborne & Alexander Bicycles This was the best exhibit.			
David N. Hawley			
E. WhitmoreTwo-wheeled Side Bar Phaeton			
J. A. BilzJump Carts Diploma.			
Geo. P. Kimball			
A. W. Sanborn & Co Thorough-brace, Express, Milk, Four-Spring and Business Wagons.			
A very creditable exhibit, and we give it special mention.			
M. H. Landers			
to prevent anything from getting under them. Diploma.			

The exhibits of A. S. Mersereau, Buggy Wagon; Edward Bowman, Eureka Dog Cart; G. G. Buckland, Patent Buckboard and Buggy; Charles Ruesser, Buggy not ironed or painted, and R. F. Bridwell, model of a new Cable Road, we make honorable mention of.

Respectfully submitted,

JAS. McCord,
W. M. Allen,
Abner Doble,
B. Gallagher,
Jacob Solomon,

Committee.

CLASS XXII.—FURNITURE, UPHOLSTERY, ETC.

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We, the subscribers, a Committee on Furniture, do hereby recommend that awards be granted as follows:
West Coast Furniture CoBest General Display of Furniture Gold Medal.
West Coast Furniture CoBest Set of Furniture, California Make Silver Medal.
Gilbert & MooreBest Bedroom Set, California Manufacture Silver Medal.
West Coast Furniture Co Best Library Set, California Make Diploma.
Also the same for the best Easy Chair. Diploma.
R. W. Taylor Best Extension Lounge and Sofa Bed Silver Medal.
Gilbert & MooreBest Assortment of School Furniture Diploma.
The Same
Pacific Spring & Mattress Co
Also the same for the Best Metal Spring Bed Bottoms. Diploma.
George W. Clark & Co Best Specimens of Decorative Wall Paper Silver Medal.
Hartshorn & McPhun Best Display of Window Shades and Fixtures Bronze Medal.
J. Fredericks & CoBest display of Window Curtains, Cornices and Trimmings. Silver Medal.
S. H. HerringBest display of Rustic Furniture Diploma.

Frank Laermans	Patent Combination Furniture Silver Medal.		
Fred. Roehnert			
Theo. Erdin			
D. G. Guibord	Ladies' Toilet Wardrobe Diploma.		
Truman S. Clark & Son	Folding Iron Bedsteads Bronze Medal.		
Sumner, Whitney & Co	Revolving Book Case Diploma.		
J. S. Bennett	Bedroom Set, Hand-made Bronze Medal.		
(The three last were not reported upon by the Committee.)			
Respectfully submi	itted,		

A. D. SHARON, WM. J. T. PALMER, NATHANIEL HUNTER,

Committee.

CLASS XXIII.—BILLIARD TABLES.

We, the undersigned Jurors on Billiard Tables, having examined the products herein described, respectfully recommend for award as follows:

J. M. Brunswick & Balke Co....Best display of Billiard Tables, Style and Finish.

Gold Medal.

The same, for Best Billiard Table Cushions.

Bronze Medal.

The same, for Best Billiard Table for Parlor use.

Bronze Medal.

The same, for the Best Balls, Cues and Racks.

Diplomo.

P. Liesenfield..... Best California made Billiard Table Gold Medal.

Respectfully submitted,

F. A. WILL,
N. P. COLE,
ELIAS GILMAN,
C. J. ROBINSON,

Committee.

CLASS XXIV.—Wooden Ware, Brushes, Wire Goods, Willow Ware, etc.

We, the Jurors in Class 24, would report that after examination we would recommend that the following receive such awards as the Board of Managers may deem proper:

California Wire Works Wire Goods for the Household, Garden, etc.

Silver Medal.

> Bronze Medal for Feather Dusters. Bronze Medal for Carpet-Sweeper. Diploma for Brooms.

Misses E. L. and M. A. Dietz, Oakland.......Patent Dust Pan and Crumb Receiver

Bronze Medal.

Heuter Bros..... Artist, and Varnish Brushes
We would make honorable mention of this display.

COLIN M. BOYD, W. N. MILLER.

Committee.

CLASS XXV.—Boots, Shoes, Leather, Rubber Goods, etc.

After examination we report the following:

Main & Winchester...... Harness, Saddlery, etc.

This extensive and fine display of home-manufactured goods is deserving of the various awards set apart for such articles. We particularly mention as being attractive and worthy of special notice, the very fine set of Dog-Cart Harness exhibited.

Gold Medal for Best General Display.
Silver Medal for Best Set of Harness.
Bronze Medal for Best Saddle and Bridle.
Bronze Medal for Best Display of Whips.
Diploma for Best Horse Collar.

This is claimed to be a great improvement over the ordinary button and can be adjusted as easily by a child as an adult.

Diploma.

H. N. Cook Leather Belting, Hose, etc.

This display of Mr. Cook is the only one of the kind made this year, though, fortunately for the credit of this important home industry, his exhibit, by its extent and solid merit, amply illustrates the progress made in this line. The most striking feature is a set of driving belts for the California Sugar Refinery, the largest of which is a triple band 50 inches wide and 120 feet long. This enormous belt, probably one of the largest in the world, is so thoroughly cemented and welded together by a 120-ton hydraulic press, made expressly for such purposes that it is practically as one continuous piece of hide, insuring great power and durability. We also find exhibited some 400 feet of Leather Hose, together with suitable nozzles and other fire gear. Leather Hose is the only kind produced on this coast, and has superior claims for durability and economy, as it is manufactured of good, sound, heavy, oak-tanned leather, and by the best workmen.

We cheerfully recommend a suitable award to him.

Silver Medal for Leather Belling. Silver Medal for Hose.

(See also Class 8.)

Respectfully submitted,

C. L. HASKELL, ELKAN WASSERMAN, Committee.

CLASS XXVI—HEMP, CORDAGE, PAPER, FURS, HAIR, ETC.

We have examined the various articles in Class 26, Cordage, Furs and Paper, and most respectfully recommend a special award to each in consideration of their fine and expensive display, which should be appreciated as assisting materially in making the exhibition so great a success.

Tubbs & Co......General Display of Cordage

Gold Medal.

H. Liebes & Co.....Furs, etc.

Silver Medal for Best Display.
Bronze Medal for Carriage Robes.

Diploma for Colored Furs.

Bronze Medal for Sheep Skin Mats.

South Coast Mill (O'Neil Bros)............Straw Wrapping Paper Diploma.

Yours respectfully,

C. J. HENDRY, I. K. WHITE,

Committee.

CLASS XXVII.—WOOLENS, DRESS GOODS, CARPETS, COTTON, ETC.

Your Committee, to whom was assigned the duty of examining and reporting on exhibits Class 27, beg leave to report that they have performed the duties entrusted to them, and submit the following as the result of their examination:

In regard to this exhibit your Committee desire to say that they were more than pleased at witnessing the working of a hand loom in the Fair, and that they appreciate the enterprise of Mr. Mackay in placing it in the Fair for the benefit of the public; and to add, that in the judgment of your Committee the Carpet being woven in that loom is equal in texture, style and finish to some of the Carpets made in the East, where machinery in that line has almost reached perfection.

Silver Medal for Carpet.

(See Class 10)

Diploma.

Kittle & Co......Spool Thread

A highly creditable display of J. & P. Coats' well-known Thread.

Not for Competition.

Henry Doyle & Co Spool Thread

A very fine display of Clark's O. N. T. Spool Threads are on exhibition by this firm, and deserves a medal; but as there is a difference of opinion between the agents of the two Threads in regard to whether they were for competition or not, your Committee will not make any recommendation, but leave it in the hands of the Directors to do as they see fit.

Silver Medal for Best Display.

All of which is respectfully submitted,

DAVID C. SMITH,
MRS. JENNIE McLEOD,
M. LACHMAN,

Committee.

CLASS XXVIII.—GENTS' FURNISHING GOODS, ETC.

Your Committee, on Exhibit, Class 28, beg leave	to report the following.	
Joe Poheim Fine Clothing and Cassimeres		
An excellent display of well-made Clothing and fir		
T 77: 1	Diploma.	
Jos. Figel An extremely fine display.	Men's and Boys' Clothing Silver Medal.	
J. W. Coppage A fine exhibit of Button Holes. Bay City Manufacturing Co This Company deserves, not only an award, but their most excellent display of Ladies' and Gent	Diploma	
texture and design; and being a new industry in highest commendation.		
All of which is respectfully submitted,		
	DAVID C. SMITH,	
	M. Lachman,	
1	Mrs. Jennie McLeod.	
CLASS XXIX.—Ladies' Furnishing Good Millinery, etc.	os, Dresses, Cloaks,	
Your Committee on Class 29, after due exami presenting their report, and trust it may meet with Mrs. Morrow & Co. The Griswold Corset is well tested and needs no sufficiently recommends it. The Child Shoulder Br and the Special Corset "with band" are both excell	your approbationThe Griswold Corset good word; its own merit ace and Corset combined,	
Mrs. L. Mish	Millinery Goods	
A large collection of fine material, and very stylis	_	
Adolph Goehring The Artificial Flower exhibit is one of especial designs are marvels of taste and beauty. The remarkable skill and care. The arrangement of the Silk Flowers deserve particular notice for their the Lilacs and Marguerites are of unusual beauty. These productions prove the success achieved Exhibitor, and the Committee deem it worthy of the A. Rogers A. Rogers This is a large exhibit, and includes some very beauty. Bronze M.	excellence. Many of the e workmanship betrays he sprays is very artistic. r daintiness. The Roses, in the industry by the highest award. Silver Medal.	

Diploma.

A. J. Balny Ostrich Feathers
This exhibit is very noticeable. The feathers are perfectly finished, and
the required coloring gives them a special excellence.

Diploma for Colored Feathers.

A very fine collection of goods manufactured in San Francisco. The bridal Corsets are unsurpassed in daintiness of work and material. The plain ones combine comfort and durability. The French Corsets are perfect in elegance and style.

Silver · Medal.

Mrs. M. H. Ober & Co...... Boston and California Dress Reform Garments Mrs. Ober exhibits original and sensible styles of Under-waists and Corsets; they are manufactured with a view to increasing health and longevity. They claim the attention of an intelligent observer. The Corded Corset and Emancipation Waist will be a boon to those who have freed themselves from the thraldom of extreme fashion. The Children's Corded Waist is her own invention, and needs only to be known by the public to meet with a sure recognition.

The Union Under-flannel, with various dress supporters, should be adopted both by those who favor dress reform, as well as by those who are indifferent to it. The Committee would respectfully suggest a testimonial for this meritorious exhibit.

Diploma,

MRS. M. E. PENDLETON,
MRS. HORACE WILSON,
Committee.

CLASS XXX.—Tobacco.

The Jury, to whom was referred Class 30, Tobacco, take pleasure in recommending the Seal Rock Tobacco Company of California the first Premium and the highest award of merit for the excellence of their product in quality as well as the great variety of styles manufactured by them. This branch of manufacture has been established within the past year, since which the excellence of its product has gained for them an enviable reputation, comparing favorably with the older established manufacturers of Virginia and other Eastern States, bidding fair in a short time to supercede many of them in supplying the home market, thus opening up another outlet for the employment of the youth of our city in productive labor. The number employed is about 250, and the demand for their tobacco is such as to require in the near future an enlargement of their premises to accommodate the growing trade. All their leaf tobacco is imported from Virginia, North Carolina, Kentucky and other tobacco-producing States, while all of the lumber for boxes, etc., is

obtained in California, thus giving employment to a great many outside of the factory. Should the time arrive when California shall produce leaf tobacco, adapted to the manufacture of plug and other tobaccos, this factory will enable producers to find a home market for their product. The capital employed in carrying on this manufactory is largely supplied by one of the oldest and most favorbaly known dealers in tobacco in California, while the superintendency is in the hands of Mr. Witcher Jones, who has been all his life engaged in manufacturing tobacco in Virginia, where the excellence of his products are well known and acknowledged; thus guaranteeing the future excellence of the product of the Seal Rock Tobacco Company of California.

Silver Medal.

E. BRIGGS,
W. B. RISING,
ROBERT WALSH,
W. T. WENZELL,
J. WALCOM,

Committee.

CLASS XXXI.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

The Jury, to whom was referred Class 31, take pleasure in calling your special attention to the splendid exhibit of Paints, Oils, Mixed Paints, Varnishes, Artists' Materials, Glue, etc., exhibited by Messrs. Whittier, Fuller & Co. of this city. The artistic manner in which their exhibit is presented at once attracts the eye on entering the Pavilion, divided as it is into four departments, each separated by plate glass partitions, reflecting and re-reflecting the articles on exhibition, while revolving mirrors continually present new and attractive features to the beholder. The display of White Lead, of which they are the Pioneer and at present sole manufacturers on this coast, is entitled to more than a passing notice. The White Lead is made entirely from lead mined east of the Rocky Mountains. Its manufacture thus opens a market for the miners, smelters and freighters until it reaches the factory, where it affords employment to upwards of 100 men, at the same time opening a market to producers of flax from which the seed is obtained to supply the oil in which the lead is ground for use, also giving employment to lumbermen, coopers, etc., directly and indirectly giving employment and maintenance to a great number of people at remunerative wages. Their exhibit of colors ground in oil of every shade and hue are pure, and present a brilliant and attractive appearance as they stand side by side in one of the departments. These colors are put up in all sized packages from 1/2 a pound to 25 pounds, and are attractively labelled.

In still another department is an exhibit of their Pacific Rubber Paints, a liquid paint which is prepared for use and which can be applied by any one, making them convenient and desirable for those situated where painters are not easily obtained. These paints are all made of the best of materials that enter into the composition of the ordinary paints, as prepared by painters from lead, oil, etc., having great body and good covering properties.

Your Committee take pleasure in recommending the first premium and highest award to them for the best display of Paints, Oils, Glue and Painters' materials, of California manufacture.

Gold Medal, Best Display of Paints, Cal. Manufacture. Silver Medal, Mixed Paints, Ground in Oil and Colors. Silver Medal for Pacific Rubber Paints Mixed for Use. Silver Medal for California-made Glue.

Hueter Bros. & Co..... This important branch of industry, as carried on by these gentlemen, is one that is entitled to a special premium, and we recommend the highest award. Your Committee have taken great pains to inform themselves in the premises, and from the evidence thus obtained we find that those who use varnishes of all kinds pronounce those produced by the Pioneer Varnish Manufactory of Hueter Bros. & Co. superior to the imported article, both in amount covered by a given quantity, as well as in durability. Silver Medal. Henry Lake & CoShoe Blacking This was the best display of California-made Shoe Blacking. Silver Medat. T. J. Bass & Co...... ... Best assortment and display of Artists' Materials Silver Medal. Davis & Cooper..... Oil Blacking Diploma. Pacific Ink Factory......Best display of Inks, Writing Fluid and Mucilage Silver Medal. Pacific Fertilizing CoFertilizers Diploma. George C. Thompson....Soda Water Generating Apparatus, California make Bronze Medal. Dixon Crucible Co..... Stove Polish, Axle Grease, Pencils and Lubricants Bronze Medal. George C. Thompson.....Best Soda Water Draught Apparatus Silver Medal. W. H. Rayburn Compressed Shavings for kindling fires Meritorious. Alfred H. Moore & Ce..... Silicate Paint, prepared for general use Silver Medal. F. C. Keil..... Best assortment of Perfumery and Extracts Silver Medal. G. G. Burnett....Best general display of Chemical and Pharmaceutical Preparations. Silver Medal for best display of Chemical Preparations and Toilet Articles.

Standard Soap Company......Best display of Candles

Silver Medal.

Jos. N. Souther & Co. Best display of Extracts and I	Essences, Cal. Production Silver Medal.
Giant Powder Company	Giant Powder
California Powder Company	ules and Sporting Powder he opportunity of having
such tests made of the relative merits of these Power to render a just and proper award. We therefore the Board of Managers for such action as may see	refer the whole matter to
premises. Silver Medal to the California Powder C	o. for Sporting Powäer.
Boericke & ShreckHomœopathic Remedies an This is the only exhibit of this character and is	
the Board may deem proper.	Diploma.
Parisian Polish Co	Furniture Polish *Diploma.
A. F. Merriman & Son	Dental Toilet Articles *Diploma.
A large number of exhibits of Patent Medicines, referred to this Committee, are necessarily of so that, as a Jury, we do not feel justified in passing up these may possess real merit, others may contain element with the exhibitors should have been content for exhibition and advertising purposes without further or that of the Jurors.	complicated a character; con them. While some of ments positively injurious; at to use the space allotted
W. T. Coleman & Co	Royal Baking Powder
We recommend the highest award and premium t	
the purest and best on exhibition. After an analysi and wholesome.	
Respectfully submitted,	,
E.	Briggs,
·	. B. RISING,
	DBERT WALSH,
	T. WENZELL,
J.	WALCOM,
* By the Managers.	Committee.
•	
REPORT ON SOAPS.	

for the best general exhibit of Soaps of California manufacture.

Gold Medal.

We also recommend to the Columbia Soap Works an award for the "best Toilet Soaps," and have no hesitation in pronouncing them to be fully equal, if not superior in material and perfume to any manufactured in the United States.

Respectfully submitted,

E. BRIGGS,
ROBERT WALSH,
W. T. WENZELL,
J. WALCOM.

Committee.

CLASS XXXII.—Geology, Mineralogy, Zoology, Botany, etc.

Col. Warren..... Seeds, Historical Relics, Curios Silver Medal.

Wm. Woodward......Fine Display of Natural History Specimens, Stuffed Birds, etc.

Silver Medal.

H. D. Ranlett..... Display of Copper Ore from Calaveras County Diploma.

Mrs. F. V. Hubbard...........Curios collected in Europe, Asia and Africa

Diploma.

Respectfully submitted,

E. BRIGGS,
W. B. RISING,
ROBERT WALSH,
W. T. WENZELL,
J. WALCOM,

Committee.

CLASS XXXIII.—GROCERIES, MEATS, FLOUR, ETC.

Your Committee on Class 33 respectfully submit their report:

The Canned Vegetables exhibited by the Franco-California Packing Co. are of excellent quality, and are neatly and carefully packed. We recommend to them the highest award.

Gold Medal.

The Mustard, Pickles and Sauce displayed by P. Wulff we find to be exceedingly palatable, and we recommend him an award.

Bronze Medal.

The Crushed Indian offered by John T. Cutting & Co., upon experiment, we find it to be nutritious, wholesale and pleasant.

Diploma.

The exhibit by Francis De Long, of Boiled and Sweet Cider, and Cider Vinegar, we find of excellent quality and free from all adulterations, and recommend an award.

Bronze Medal.

Also for the quality and purity of his fine and fancy candies we recommend the award of

A Diploma.

The Pop-Corn made and exhibited by D. S. Ciphers was being thoroughly tested and approved by numerous children, large and small, and appeared to give perfect satisfaction.

The process exhibited by W. L. Dawson to preserve fruits without the addition of sugar depends upon some ingredient, the nature of which was not disclosed to your Committee; hence we prefer to make no comments.

There are two varieties of Egg Food, viz.: The Wellington and Imperial. Their composition was not made known to us, and not being able to take the necessary means and time to prove their various claims, we dismiss them with the statement that both have numerous testimonials to offer from various poultry raisers, and advise those who are interested to give them both a fair trial.

To B. F. Wellington, for his assortment of Seeds, Fresh Mushroom Spawn, and illustrated collection of Vegetables and Flowers, we recommend an award.

Diploma.

Respectfully submitted,

WM. D. JOHNSTON, M. D., D. D. SHATTUCK, PHILIP D. CODY,

Committee.

CLASS XXXIV.—Wines and Brandies of California Production, from California Vineyards.

Your Judges, in Class 34, Wines and Brandies, have the honor to report upon the samples submitted to their judgment in compliance with printed instructions given them thereupon. There were few exhibitors in this class, one sample only being exhibited by Mr. Migeliavacca, and one, Blackberry Wine, by Mr. Hunt.

The Judges most respectfully recommend a high award to Arpad Haraszthy & Co, for Eclipse and other brands of Natural Champagnes, and also for their generally fine display of both Champagne and Still Wines, and such other awards as proper, according to the classification appended. The Judges recommend this award strongly and respectfully for the intrinsic merits of

those Champagne exhibits, as also, on account of the large capital sunk in the enterprise. The risk of loss or failure, and the heavy competition of the Effervescent Wines, whether natural or artificial, as also on the ground of the now assured success of a new and important branch of viticultural industry.

Gold Medal for Eclipse and other brands of Champagne. Diploma for Best'Angelica Wine.

To J. Gundlach & Co. we recommend your highest award for their display of Dry White and Red Wines of the Rhenish type, and also for their other Dry Red Wines, and the generally good display of their exhibits; we also recommend other awards and distinctions according to our classification.

Gold Medal for best general display of California Wines. Diploma for Best White Wine, Rhenish Type. Diploma for Best Red Wines.

Diploma.

REPORT ON BRANDIES.

In this sub-section there were only two exhibitors.

We have the honor to report that six samples of California Brandy were submitted to us, viz: J. Gundlach & Co.'s Grape Brandy, distilled in 1878 and 1881 respectively, and A. Haraszthy & Co.'s, dated 1878, 1879, 1880 and 1881.

We have placed them, to the best of our judgment, in the following order of merit:

- 1st J. Gundlach & Co., 1881, alcohol 49.58; pale, a good deal of essential oil, but promising with time to ripen into good Brandy.
- 2d. J. Gundlach & Co., 1878, alcohol 46.27; deep color, rough taste. No striking merit attaches to either sample.
 - 1st. A. Haraszthy & Co., 1880, alcohol 47.58; remarkably good, pale, no fusel oil.
 - 2d. A. Haraszthy & Co., 1879, alcohol 49.95; uncolored, pure brandy.
 - 3d. A. Haraszthy & Co., 1881, alcohol 48.53; very good, well-made, no fusel oil.
- 4th. A. Haraszthy & Co., 1878, alcohol 48.50; deficient in character, inferior.

Regarding the three bracketed together, we found so little difference in point of merit that we thought it best to recommend them collectively for a medal. We remark with pleasure a very great improvement in California Brandies distilled within the last two or three years, whilst we regret the apathy of the distillers and holders of native Brandies in neglecting to avail themselves of the opportunity to exhibit their best for the study of experts and the information of the public.

Diploma to A. Haraszthy & Co. for Best California Brandy.

John I. Bleasdale, D. D., Chairman, Alexander D. Bell, F. Phondorf, Jurors.

CLASS XXXV.—FERMENTED PRODUCTS.

The Jurors in Class 35 have the honor to report on exhibits submitted to their judgment, as follows:

The Porter we consider the best sample on exhibition, and recommend it for favorable consideration.

Silver Medal for Albion Ale.

Diploma.

- J. T. Cutting & Co..... Lithurian Stomach Bitters
 This exhibit of Imported Bitters, in our estimation, merits the highest
 premium for general excellence in its class as a "Cocktail Bitter."

 When Connect & Son

Wm. Goepert & Son Exported Felsen Beer Diploma.

Respectfully submitted.

I. D. THOMPSON, MICHAEL KANE, JOHN HARRISON, C. COATES,

Committee.

CLASS XXXVI.—Printing, Lithographing, etc.

Your Committee on Class 36 would report:

Sumner, Whitney & Co......Law Books and Revolving Book-Cases
The exhibit of this firm consisted of their own publications only. The
Reports of the Supreme Court of California, in fifty-seven volumes, and a
row of national works, treatises on various branches of the law, which have
already gained a wide reputation and circulation, some of which have been
reprinted and sold throughout the Union. Beside these solid octavo volumes,
and in strong contrast with the old folio and black letter books of olden times,
was a line of little books just large enough for the hand or pocket, known as
"The Practitioner's Series." Each of these has condensed the learning concerning some great title of the law into short paragraphs and terse sentences,

supported by an enormous number of references to cases from both English and American Reports. Some of these on prominent titles have reached second, third, and fifth editions. California has been the first American State to reduce the Common (or unwritten) Law to a statutory system by enacting a series of Codes. We have a Civil Code, covering the rights of persons and property; a Code of Civil Procedure, providing the methods by which those rights may be enforced in our Courts; a Penal Code, defining crimes and providing for the punishment thereof; and a Political Code which provides for the Government of the State and the duties of its officers. These four Codes and the Constitution fully annotated are published by Messrs. Whitney & Co. in five neat handy volumes, and are to be found on the tables of three-fourths of the lawyers of the State. This exhibit also embraces half a dozen books, entitled "Legal Recreations," which treat of sober legal topics such as Wills, the Law of Carriers, of Host and Guest, etc., which, while reliable and useful as law books, are as entertaining to the general reader as much of the light literature of the day.

These works are exhibited in neat revolving Book Cases of Eastern manufacture, and show that California has contributed its proportion to the legal literature of the country, and that the brain-workers of the East are ready to purchase and use these literary tools of California manufacture.

We recommend an award.

Silver Medal.

Mrs. J. W. Stow.....Works of Sisters of Social Science; Samples of Wood and Metal Type, and Printers' Implements; Copies of Newspapers, etc.

The exhibit of specimens of Book and Job Printing by this firm has been the best of the year. The Catalogues of Hardware have been produced in the very best style of the art, in letter-press, style, paper and inks. They also show some beautiful specimens of illuminated cards and pamphlet covers.

We recommend an award.

Bronze Medal.

Edward Bosqui & Co....Lithography—The Grapes and Grape Vines of California.

The exhibit of this firm comprises lithographic plates containing prints of eight kinds of California Grapes. These pictures have been closely inspected by thousands of persons interested in viticulture and the lovers and critics of art, and all agree in the opinion that they are a most perfect imitation of the grape and vine. The ordinary observer of these grand and costly works can

have but a limited conception of the labor, time and money applied to their production. Mr. Bosqui has expended thousands of dollars and more than a year's time in bringing to completion his great work on "the Grapes and Grape Vines of California." After returning from the Paris Exposition, Prof. Geo. Davidson writes to Mr. Bosqui congratulations on his great success, and says: "You know I was fairly enthusiastic about those I had received, the process I had witnessed, etc., but now I come back fairly and squarely declaring that I saw nothing of the class in Europe to approach them. How chagrined I was in the Exposition at Paris to find you had nothing of the kind on exhibition! For it would not only have vastly redounded to your credit, taste and enterprise, but would have shown the viticulturists of Europe what California was producing and what you were so magnificently illustrating The jurors gave gold medals for objects much below your efforts; in fact, your illustrations would have been unique in this last World's Collection. The only drawback would have been that the United States Commissioner would have been required to prove that your plates represented our ordinary productions, and especially that you, as an individual, and not the State, had undertaken the work."

We recommend an award.

Silver Medal.

Colonel Warren....Collections of Agricultural, Horticultural and Floral Books, in variety. The Eucalyptus woods and seeds of many kinds. Flower and Vegetable seeds and Eucalyptus Medical Preparations from Australia.

The Colonel has a great many ancient books and newspapers; the first sack of flour made on this coast in 1853; the first broom made in 1852; a number of the first agricultural products; mountain flower-seeds, vegetable seeds of '52 and '53; cherries and gooseberries of '56 in brandy; samples of Eucalyptus wood of ten kinds. Col. Warren's memory of the early times is retentive, and he loses no opportunity of entertaining visitors to his stand, particularly on the medical properties of the Eucalyptus. He has published the California Farmer since 1852, which he has continuously edited and printed for more than thirty years. We recommend to Col. Warren an award.

Silver Medal. (See Class XXXII.)

Respectfully submitted,

B. F. STERETT, CHARLES L. SCUDDER.

CLASS XXXVII.—Gold, Silver and Plated Ware, Watches, Clocks, Jewelry, Bronzes, etc.

Your Committee of award on articles embraced in Class 37 beg leave to submit the following report:

Entry 89 is that of R. W. Jackson, comprising shell-work in jewelry, and inlaid ornamental work in shell. The exhibit is the most worthy specimen of "Home Industry" to be found on exhibition, and but few

have any conception of the extent and amount of business done by this exhibitor. Deeming it worthy of attention, we visited the factory and found it employed from 15 to 20 men in working up the "Haliotus," or what is commonly known as the "Abalone" shell. These shells are purchased from Italian and Chinese fishermen, and the entire work from the rough shell to its completion, as shown in the exhibit, is done by this exhibitor, who originated shell-work here. Such work is done in no other part of the world, principally because this shell is to be found only on this coast. The machinery used in its manufacture is of his own invention. In consideration of the enterprising spirit of this exhibitor, we recommend to him the highest award, as a fitting tribute to his industry, and the perfection to which he has brought his work.

Silver Medal.

Dichera, Michel & Co..... Display of Oriental Curiosities
This lot of Curios was evidently placed on exhibition for sale; but in consideration of the fact that they were recognized with a premium by Fairs in Australia, we deem it justice to the Society to place itself on record, and not be outdone by foreign countries, and therefore recommend an award.

W. E. Shepman...... Silver Plated Ware and Amalgamating Plates

E. G. Denniston...... Silver Plated Ware and Plated Mining Plates

As between these two exhibits it is difficult to distinguish; but in consideration of the fact that the latter has already four medals of the Society, we thought proper to recommend the award for Plated Ware to the former.

Silver Medal to E. G. Denniston for Plated Amalgamating Plates. Silver Medal to W. E. Shepman for Plated Ware.

The remaining exhibits are those of Ichi Ban and G. T. Marsh & Co., both representing Japanese and Oriental goods. These exhibits differ materially in their characters and arrangements.

In that of G. T. Marsh & Co. are some fine pieces of Bronze, Porcelain, Lacquer Work, Carvings, Embroideries in Gold Thread, etc. A small but creditable display, and some fine goods.

That of Ichi Ban is a large and more varied display. At first glance, one would hardly think there were many fine goods, the space occupied by them being so large; but a studied search develops a great number of very fine goods in Bronzes, Imari, Cloissonneu and Lacquer, Wood and Ivory Carvings, Inlaid Work, Embroidered Screens, (some of the letters in very fine work,) Decorated Earthenware, Jewelry, Embroideries, both varied and expensive, in silk, satin and gold; also a number of cases of fine goods and articles; one especially worthy of attention contains an extraordinary collection of Japanese Coins, some dating back over 2,000 years. A leading feature of this exhibition is, the presentation to the visitor of the work in progress of Japanese Artists in embroidery and painting, in the center of the room, and cannot be too highly commended. This exhibition is not only the largest in wares, but is, in itself, both novel and interesting, and a valuable acquisition to the Society, showing much enterprise in its display and accessions, and deserves the greatest encouragement.

Both exhibits in this line are of a high order; but as you recommend a recognition of the largest and best exhibit we are obliged to accord to the Ichi Ban the preference, and therefere recommend to it a premium, such as is deemed a fitting recognition of the general enterprise shown in this exhibit, and as an encouragement to future exhibitions.

Gold Medal.

We would also recommend a proper testimonial to Messrs. G. T. Marsh & Co. for their exhibits of Bronze and Porcelain Ware.

Silver Medal.

> CHAS. L. SCUDDER, F. H. McConnell, Committee.

CLASS XXXVIII.—Scientific Apparatus.

At the commencement of the fair, a Committee consisting of F. A. Frank, W. J. Waters and J. P. McMurray were appointed to examine goods in this class.

Among the various exhibits were three incubators, the Oxford, Eclipse and Perfect Hatcher, and exhibited respectfully by J. P. Clark, G. G. Wickson and B. F. Wellington.

The Committee, after a number of meetings and careful examination, were unable to agree upon a verdict, each machine having an advocate for its superiority. They reported to the Board that they were unable to agree, and Wm. Hammond, M. D., was requested to act with them. The final result was, that Mr. Hammond and Mr. Waters recommended an award to the Oxford Incubator, each presenting in writing a comprehensive report of the working and merits of the machine. Messrs. Frank and McMurray also presented a report recommending the Eclipse machine for an award. After consideration, the Board of Managers decided to make no award to Incubators.

We the jurors in Class 38 beg leave to make the following report:

Central Gas Light Company...Gas Engine, Gas Stoves for Cooking and Heating, Gas Apparatus, etc.

Gold Medal.

W. B. West Optical Goods

Bronze Medal.

V. S. W. Parkhurst......Forsyth's Scales
Silver Medal.

John Roach.....Surveying Instruments
Silver Medal.

J. H. W. Riley

Calligraph

Diploma.

H. Wenzel

Pneumatic Clock

Silver Medal.

F. A. FRANK,
W. J. WATERS,
J. P. McMurray,
Committee.

CLASS XXXIX.—Surgical and Dental Instruments and Appliances.

We, the undersigned Jurors, appointed to report upon Medical, Surgical and Dental Apparatus in Class 39, having carefully examined the various exhibits presented, report as follows:

Drs. Hinkle & Handy....... Apparatus for the Cure of Deformities The apparatus consists of appliances for various deformities of the back, hip, legs, etc., such as are and have been for years in common use by surgeons. We recognize no new principle involved or new application of old principles, and presume no claim of this kind is made. The apparatus is handsomely and tastefully constructed and presents a good appearance: but we see nothing which in our judgment calls for an award.

Bronze Medal.

Mr. C. N. West.... "A New Electro-Medical Belt for the Cure of all Diseases without Medicine."

Aside from the extravagant assertion in this announcement, Mr. West claims for his Belt that the positive element, the zinc, when worn out, may be removed and replaced at trivial cost, thus making the Belt practically indestructible. We make no comment upon the broad assertion that the Belt will cure, among many other diseases named in his circular, Bright's Disease, Rupture, Heart Disease, Erysipelas, Epilepsy, Asthma, Blood-poisoning, etc. While we do not endorse the Belt as a universal remedy, we believe it a good one, well constructed and durable, and by actual trial we find it capable of generating a large amount of electricity. It is, no doubt, of value in the treatment of that class of cases in which electricity in this form is serviceable.

Diploma.

Two exhibits of Trusses for Hernia were examined by the Jury.

Wm. Beeman.....Elastic Cork Truss
A. A. McLean.....I. X. L. Elastic Truss

The points of difference between these Trusses are the pads and their mode of attachment to the elastic bands. The pad of the former is made of cork and is attached by a spiral spring which permits of some lateral and perpendicular motion. The pad of the I. X. L. Truss is of hard wood, polished, and is attached by a ball and socket or universal joint, and has a spring at the back of the ball to increase the elasticity. Each of these Trusses is good in

its way. The cork pad, being slightly elastic, may be applicable to cases in which retention mainly is desired, or in which tenderness will not permit a hard pad to be worn, while the latter, having the hard wood pad, seems more suitable where a radical cure is aimed at. We believe the I. X. L. Elastic Truss to be serviceable in the larger proportion of cases, but as both have merit the Jury would suggest that an award be granted each.

Bronze Medal to A. A. McLean for Best Truss, I. X. L. Elastic. Diploma to Wm. Beeman for Elastic Cork Truss.

Wm. Beeman Artificial Limbs
Silver Medal.

(The last not reported upon by the Committee.)

Respectfully submitted,

R. BEVERLY COLE, M. D. HENRY GIBBONS, JR., M. D., Committee.

CLASS XL.—HAIR WORK, NEEDLEWORK, EMBROIDERY, SHELL WORK, PATTERNS, ETC.

Your Committee on Class 40, after a long and careful examination of articles, would respectfully recommend the following as worthy of an award:

Mrs. N. R. Fox...... Embroidery Pictures

These were very pretty, and showed taste and skill in their execution.

Diploma.

Mrs. N. P. McPherson.....Picture of Yosemite Valley made of Ferns, and the Falls made of Rock.

These pictures show to what ornamental purposes the plainest of Nature's forms may be utilized.

Diploma.

Mrs. C. A. Johnson Hand-knit Quilt Diploma.

Emma J. Cook
L. P. Federmeyer Hair Work This exhibitor shows wonderful skill in making life-like pictures and portraits of Human Hair, and deserves an award, which is well merited.
Mrs. Sarah Clark
Mrs. Theresa Frulghi
Miss Bessie TaylorLace-embroidered Toilet Set Diploma.
Miss Lizzie Easton Point Lace Work Diploma.
Mrs. E. F. Jones Bed Spread and Pillow Shams Diploma.
Miss M. A. Oakshett
Diploma.
Mrs. Howard FraserFancy Rug Diploma.
Misses E. L. & M. A. Dietz Original Floral Sign Diploma.
Mrs. Judith McGowan Sofa Cushion, Satchets and Fancy Work Diploma.
Mrs. Henrietta Lush Bed Spread, Table Cover and Tidies Diploma.
Mrs. Eliza PrydzEmbroidered Rug aud Towel Diploma.
Mrs. A. N. PetersonHade-made Lace Work, including Bed Spreads, Shawls, Tidies, Curtains, etc.
Bronze Medal.
Mrs. M. A. GardinerSilk Quilt (Jacob's Vision) Diploma.
Mrs. H. Phillips Embroidered Quilt, Skirt and Cushion Diploma.
Mrs. J. E. Cotter
Miss Hattie L. WorkSilk Quilt of 6,000 pieces and Satin Cushion 700 pieces Diploma.
Mrs. H. Stettin

Mrs. Amanda Dallas	
Diploma. Mrs. H. H. ParentMiniature Furniture and Fancy Wor	k
Great UnknownSilk Table Cover	er
Very pretty and deserving of mention. Mrs. M. S. Statham Tissue Paper Wor	k
Diploma.	
Mrs. C. Seivers	's
Mary E. Allen (aged 7)Lace Shams, Quilt and Doll's Clothe Diploma.	s
Kitty S. Bryant Worsted Bureau Set and Crocheted Shaw	71
Mrs. B. BrowneFancy Quilt and Fire Scree	\mathbf{n}
Diploma.	
Mary M. CherryWorsted Wreat	h
Mrs. E. A. Bulfinch	\mathbf{t}
. Diploma.	
Miss P. Gosliner	S
Mrs. S. W. RaveleyBed Quil	ŧ
Diploma.	Ü
Mrs. P. E. KramerEmbroidered Banners, Brackets, Picture Frames Piano Cover, etc.	,
This was a very elegant and beautiful display, and we recommend th	e
highest award. Silver Medal for Best Kensington Embroidery. Diploma for Cheneille Work.	
Mrs. J. MorseLinen Embroidery, Table Cover, etc.	
Diploma.	
Mrs. M. I. ElderGeneral Display of Embroider	y
Diploma for Portiere Curtain.	
Mrs. Julianna LugerSkeleton Leaves and Flower Diploma.	\mathbf{s}
Harriet F. Baily Paper Sculpture	e
This talented lady gave a daily exhibition of her skill by cutting with ordin	
ary scissors, from paper, a great variety of flowers and other beautiful objects	
Diploma.	
Henry R. ReynoldsSkeleton Leaf Picture	S
Diploma. Respectfully submitted,	
Mrs. George Spaulding,	
TATE OF	

MRS. GEORGE SPAULDING,
MRS. J. H. GILMORE,
MRS. ASA R. WELLS,
Committee.

CLASS XLI. AND XLII.—PAINTINGS IN OIL AND WATER COLORS. CERAMIC ART.

Your Committee of Awards on Classes 41 and 42, beg leave to submit the following report:

The Society has placed at the disposal of this Committee one thousand dollars to be awarded to exhibitors under these classes.

In our opinion the artists have not responded in a manner or degree commensurate with the liberality of the Society. We were instructed to make quantity as well as quality a factor in the distribution of prizes, a very difficult thing to do. We have endeavored to recognize the true artist.

In accordance with your instructions, we have been liberal, and disbursed the entire amount, doing more than justice to some exhibitors. Where marked improvement has been shown we have rewarded it with a liberal premium. To Amateurs we have shown as strong recognition as possible. Your offer of premiums is intended to encourage and improve Art, and where any talent has been shown we have endeavored to recognize it. The figures and sketches in pencil by pupils of the School of Design are worthy of more than honorable mention.

Every exhibit worthy of notice has been rewarded, and, if we have been over liberal in any one instance, we hope those who cannot fail to appreciate the fact will endeavor to show improvement in the future. In no department has the Society shown more liberality than in this, and we think it but poorly responded to by our local artists.

One thousand dollars in Cash awarded for Exhibits in this Class. (See Cash Premiums.)

In Class 42 we recommend to

W. W. Montague & Co......Richest and best Display of Encaustic Tiles

Gold Medal.

Mrs. Helen Brodt......Porcelain Painting
Silver Medal.

Respectfully submitted,

T. J. BLAKENEY,
CHAS. L. SCUDDER,
NELLIE HOPPS
MRS. O. F. WILLEY,
NELLY A. WATERHOUSE,
Committee.

CLASS XLIII.—Sculpture, Statuary and Carving.

Makes a generally creditable display, and worthy, we think, of an award.

Bronze Medal.

Mrs. B. F. Ingalls	
Espina's Writing Academy	ns of Pen Drawing Pen Drawing, and
We recommend the highest award in this case for General	
California Commercial College This display is very noticeable for Pen Flourishing.	Pen Work * Diploma.
S. & G. Gump	. Steel Engravings $Diploma$.
Col. Warren	Crayon Drawings
Herman Cohen Picture, " (Not for	Guardian Angel.'' or Competition.
A portion of your Committee having been favored with wonderful work, do unhesitatingly pronounce it the most of still-life they have ever gazed upon.	
E. McD. Johnstone	gs in Pen and Ink

Few persons would mistake these Drawings for Steel Engravings.

H. R. Reynolds......Pen and Ink Picture
Honorable Mention.

Pupils of School of Design Sketches in Crayon, Pencil and Ink

Your Committee would call the attention of your Honorable Board to the fact, that, for this display, which in intrinsic merit, is far superior to any we have examined; there is not a gold medal for general display, and medals of value for particular designs and studies.

The principal reason prompting us in urging the attention of your Honorable Board to the greater encouragement of these scholars, is the fact that, with a few exceptions, the exhibits we have examined are simply copies; and lack of originality, or any approach to create art or design, points of great importance in, and characteristic of the numbers in this display.

Silver Medal.

Night School, S. F. School Department.... Original Drawings by the Pupils.

Silver Medal.

J. J. REY,
JAMES K. WILSON,
E. McD. JOHNSTONE.

Committee

CLASS XLV.—PHOTOGRAPHY.

Your Committee on Class 45 beg to report as follows:

We regret a lack of general display in this department, many indeed of our prominent galleries not being represented in any shape:

Bronze Medal for Stereoscopic Views.

Smyth & Watson......Photographs of Machinery Uniformly good.

Elite Photo Gallery......Photographs

Too late for Competition.

Respectfully submitted,

J. J. REY,
JAMES K. WILSON,
E. McD. JOHNSTONE.

CLASSES XLVI. AND XLVII.—PLANTS, TREES, FLOWERS AND FRUIT.

We, the undersigned, your Committee on Class 46 and 47, including plants, flowers and fruits, beg leave to report as follows:

FLOWERS.

Woodward's Gardens......Second best display of Foliage, Plants and Ferns \$80.00 and Bronze Medal.

J. T. Murphy Best Continuous display of Cut Flower \$40.00 and Silver Medal.		
Thos. Saywell Second best display of Cut Flower \$25.00 and Bronze Medal.		
Thos. SaywellBest display of Dahla \$15.00		
FRUIT.		
Sol. Runyan Best continuous general display of Francisco Sol. Runyan Best continuous general display of Francisco Sol. Runyan \$75.00 and Silver Medal.		
John Pouyal Best Group of Orange and Lemon Tree * Silver Medal		
We find that other fruit exhibits did not come within the proper requirements of a continuous display and we consequently refrain from awarding the other premiums. As a fitting acknowledgment of the worthiness of the following entries, we respectfully suggest that a diploma be issued to each: Mrs. M. C. McLellan. Prolific Pear Graft G. W. Hinclay Mountain Peaches Munson & GreaviesTuscan Wheat Eveleth & NashExhibition of Fruit L. H. ThomasWatermelon A. CrawfordGravenstein Apples Eldorado Fruit CompanyMountain Peaches W. J. Hunt		

Amos Adams, MATTIE A. FARNUM, S. JENNIE MANN, E. J. Wickson, Committee.

CLASSIFIED LIST

OF

PREMIUMS AWARDED.

GOLD MEDALS.

Class.	Name of Exhibitor.	Article.
2.	W. T. Garratt . Best Steam Pum	p, direct and double acting (Hookers)
3.	San Francisco Tool Company	Best Display of Metal Working
		Machiner y
4.	Pacific Saw Manufacturing Co	Best General Display of Saws
11.	D. M. Osborne & Co Best Gene	ral Display of Agricultural Machinery
12.	California Iron CompanyBe	est General Display of Iron and Steel
		(California Manufacture)
12.	Selby Smelting and Lead Co	. Best General Display of Lead and its
		Manufactures
12.		Best Display of Wire and Wire Rope
13.	Pacific Stove and Iron Works	Best Display of Stoves and Ranges
10		(California Manufacture)
16.		of Cutlery (California Manufacture)
18.		Best Assortment of Brass Work
18.	-	lay of Lamps, Lanterns and Reflectors
19. 19.		Plate Glass Mirror made in California
20.		splay of Glass for Architectural WorkBest Display of Pianos
40.	Statuam Flano Company	(Californfa Manufacture)
21.	M. I. MaCua Rest General D	isplay of Carriages (California Make)
22.		Best General Display of Furniture
23.		Best General Display of Billiard
-0.		Tables; Style and Finish
23.	P. Liesenfeld Best B	illiard Table (California Manufacture)
24.	·	Best Display of Cooperage
25.	S S	eral Display of Harness and Saddlery
26.	1	Best General Display of Cordage
31.		Best Display and Assortment of Soaps
31.	-	Sest Display of White Lead and Paints
	•	(California Manufacture)

Class	. Name of Exhibitor.	Article.	
33.	Franco-Californian Packing Co.	Best Display and Quality of (Canned
		Veget	ables
34.	J. Gundlach & Co Ber	st General Display of California	Wines
34.	Arpad Haraszthy & Co. Eclipse a	and other brands of Native Cham	pagnes
37.	Ichi BanB	est General Exhibit of Japanese	Goods
38.	Central Gas Light CoGenera	al Display of Gas Stoves and App	paratus
42.	W. W. Montague & CoEuca	austic English Art-Painted, and (Chelsea
		American '	Tiles

SILVER MEDALS.

1.	Hawley Bros. Hardware	CoBest Straw-Burning Engine, "Rice's"
1.	W. H. Ohmen Best V	Vertical Engine and Boiler Combined, in motion
1.	W. H. Ohmen	Best Upright Engine, in motion
1.	P. H Jackson & Co	Best Smoke Consumer
2.	A. B. Sanford	Pulsometer Pump
2.	Henry C. Langrehr	Best Ship Pump
2.	W. T. Garratt	Deep Well Pump, with Toothaker's Air Cushion
2.		
2.	J. H. Darrah	Rotary Pump (California Invention)
2.	W. F. Toothaker	Pneumatic Counter Balance for Pump Rods
3.		Soldering Machine
3.	Abner Doble	Blacksmiths', Miners' and Stone-Cutters' Tools
3.	J. B. Jardine	Power Shears and Punching Machines
4.	Geo. Bull & Co	Best Portable Saw-Mill, in motion
4.		Tree Feller and Log Saw (Smyth's Patent)
4.	N. W. Spaulding	Circular Saw with Inserted Teeth
5.	B. E. Henriksen	Best Automatic Safety Clutch for Elevators
5.	S. F. Chronicle	Stereotype Plates and Work
5.	F. W. Krogh & Co	Best Wind Mill (Cal. Manufacture)
5.	Woolhouse Bros	Sunlight Gas Machine, in operation
5.	Phelps, Foster & Co	Carpet Renovator (Couch's Patent)
6.	M. B. Dodge	Best Ore Breaker
6.	W. T. Garratt	Best Rock Drill
6.	W. T. Garratt	Best Air Compressor
6.	A. R. Redstone	Best Quartz Mill
6.	F. A. Huntington	Best Crushing and Amalgamating Pan
6.	Triumph Concentrating	CoBest Wet Concentrator
6.	W. I. Tustin	Best Dry Crushing Quartz Mill
6.	W. B. Farwell	Best Dry Concentrator
8.	David Kerr	Best Hose Cart

Class	. Name of Exhibitor.	Article.
9.	Capt. George Cumming	
10.		Carpet Loom, in operation
10.		Display of Sewing Machines "The American
11.		Best Reaper with Self-Raker
11.		Best Self-Binding Grain Harvester
11.		CoBest Mower, "The Victor"
11.		CoBest Gang Plow, "Buckeye"
11.		Best Portable Mill for Grinding Grain
11.		Best Derrick Hoist Fork
12.	•	Best Assortment of Iron Castings
12.	•	Best Car and Carriage Springs
	1 3 1 7	(California Manufacture)
13.	Perry & Co	Best General Display of Stoves and Ranges
13.		Best Fireplace Heater
14.	_	Best Display and Assortment of Fire-Arms
16.	_	Best Carving Set (California Make)
16.		ing Co Best Assortment of Edge Tools
17.		Best Display of Marbleized Iron Mantels
17.	•	est Assortment of Terra Cotta Ware (Cal. Make)
17.	Gladding, McBean & Co	Best Sewer and Drain Pipe
18.	W. T. Garratt	Best Assortment of Bells
18.	J. A. Griswold	Griswold's Patent Lamp Filler
18.	P. H. Jackson & Co	Jackson's Patent Vault Cover and Patent Girder
18.		Best Slop Hopper
18.	W. M. Sack	Best Water Closet, "Sack's Automatic"
18.		Best Sewer Trap
18.		Model of a Castle, made of Zinc
19.		Cut and Embossed Glass
19.	•	Best Mirror Frames, Design and Workmanship
20.		Best General Display of Imported Pianos
20.		Best Banjo (California make)
20.		Zithers of California Manufacture
21.	•	Best General Display of Imported Carriages
21.		Best Top Buggy (California Make)
21.		Best Two-horse Truck
21.	•	Best Coal Cart
21.		Best Milk Wagon
21.		Best Four-Spring Wagon
22.		o Best Set of Parlor Furniture
22.		Best Bed-Room Set of Furniture
22.		Part Sofe Ped and Laure
22.		Best Sofa-Bed and Lounge
22. 22.		Best Display of Decorative Wall Hangings
		st Display of Curtains, Cornices and Trimmings
24.	wakeneid nattan Co	

Class	S. Name of Exhibitor.	Article.
24.	California Wire Works	Wire Goods
24.	Figer Bros	
24.	John C. R. Lang	
25.	H. N. Cook	
25.	H. N. Cook.	_
25.	Main & Winchester	
26.	S. P. Taylor & CoBest General Di	
26.	H. Liebes & Co	
27.	Henry Doyle & CoBest Display of	
27.	J. Fredericks & Co	
27.	Alexander Mackay Ingrain Carpet	
	-	during the Fair
27.	J. P. Everts	Best Rag Carpet
28.	Jos. FigelBest Di	splay of Men's and Boys' Clothing
28.	Bay City Manufacturing Co	Best Display of Hats and Caps
29.	M. Freud & Sons	
29.	Mrs. L. Mish	
29.	Adolph Goehring Best Disp	
		Manufacture
30.	Seal Rock TobaccoBest Displa	
31.	G. G. BurnettBest Display of	_
		Articles
31.	Columbia Soap Works	= "
31.	F. C. Keil Best Asso	
31.	Standard Soap Co	<u> </u>
31.	California Powder Works	- -
31. 31.	J. T. Bass & Co	
31.	J. N. Souther & CoBe Whittier, Fuller & Co	
31.	W. T. Coleman & Co	·
31.	Henry Las & Co	
31.	Heuter Bros. & CoBest Assortmen	
31.	Pacific Ink Factory	·
31.	Geo. C. Thompson	_
31.	Whittier, Fuller & CoBest Grou	0 11
31.	Alfred S. Moore & Co	_
31.	Whittier, Fuller & Co	_
32.	American Salt CoBest Displa	y of Salt, Crude and Manufactured
32.	Wm. WoodwardBest Collection	•
		and Birds
32.	Col. WarrenBest 0	Collection of Relics and Curiosities
33.	George Haas	
35.	J. H. Burnell & Bro	
36.	Edward Bosqui & Co	Best Chromo-Lithography
36.	Sumner Whitney & CoDisplay	of Law Books, their Publications

Class	Name of Exhibitor.	Article.
37.	E. G. Denniston	Silver-Plated Amalgamating Plates for Saving
	,	Gold and Silver
37.	W. E. Shepman	Best Display of Re-Plated Ware
37.		Best Display of Jewelry (Cal. Manufacture)
37.		Best Display of Japanese Bronzes and
		Porcelain Ware
38.	Hermann Wenzel	Best Pneumatic Clock (his Invention)
38.	John Roach	Best Surveying Instruments
38.	V. S. W. Parkhurst	Best Display of Scales "Forsyth's"
39.	Wm. Beeman	Best Artificial Limbs (Cal. make)
40.	Mrs. P. E. Kramer	Best Kensington Embroidery
41.	Mrs. Helen Brodt	Porcelain Painting
43.	Henri Gressli	
44.	School of Design	Original Drawings by the Pupils
44.	C. Eisenschimel H	Best General Display of Penmanship and Drawing
44.	Night School—S, F. I	Public School DepartmentOriginal Drawings
		by the Pupils
44.	Sanborn, Vail & Co	Best General Display of Pictures
45.	N. M. Klain	Best Display of Landscape Photography
46.	E. Meyer	Best Display of Plants, Flowers and Ferns
46.	John Pouyal	Best Group of Orange and Lemon Trees
46.	J. T. Murphy	Best Continuous Display of Cut Flowers
47.	Sol Runyon	Best Continuous Display of Fruit.

BRONZE MEDALS.

	dia .
1.	W. H. Ohmen Best Hoisting Engine and Jaler Combined
1.	Central Gas Light Co Best Caloric Engine, in motion
1.	Central Gas Light Co Best Gas Engine, "Otto Silent"
1.	W. T. GarrattSteam Engine Governors and Globe Valves
2.	W. T. Garratt Best Water Meter, "Worthington's"
3.	John WrightImproved Pick
3.	San Francisco Tool CoBest Iron Shaper and Planer
3.	San Francisco Tool Co Best Engine Lathes
3.	F. C. Anderton Anderton's Cupola Furnace and Forge Blower
3.	San Francisco Tool Co Best Milling Machine and Gear Cutter
6.	Joshua Hendy Best Ore Feeder
6.	Adams & Carter Improved Tappet
7.	Weister & CoBest Hand Washing Machine (Complete Washer)
8.	J. A. GriswoldBest Fire Escape
9.	A. C. WattsFloating Dry Dock (Model)

Clas	s. Name of Ehibitor.	Article.
11.		Best Corn Sheller, "Keystone"
11.	· · · · · · · · · · · · · · · · · · ·	Best Fan Mill, "Champion"
11.		est Reaper, "Osborne's Independent"
11.		Best Riding Cultivator
11.		Best Sulky Hay Rake
11.		Harrow (Pacific Coast Manufacture)
11.		Best Hay and Straw Cutter
11.		Best Grain Cleaner, "California Chief"
11.		Best Fruit Canner, "The Wheeler"
11.	_	Best Almond Huller
13.	· · · · · · · · · · · · · · · · · · ·	eam and Hot Water Heating Apparatus
13.		Copper Ware (California Manufacture)
13.		Adjustable Grate for Stoves and Ranges
14.		Best Lemon Squeezer, "Little Giant"
14.		Best display of Fishing Tackle
16.		Best Display of Combs (Cal. make)
17.		Best Buckingham and Yellow Ware
17.	Gladding, McBean & Co	Best Ornamental Chimney Tops
18.	Weed & Kingwell	Best Display of Plumbers' Goods
18.	W. Wilson	Best Gas Trap for Basins
19.		
19.		Best Newel Post
19.		Articles Turned from California Woods
19.		Best Passe-Partouts
19. 19.		Painted Table TopsGold Frame
21.		
22.		Best Open Buggy (Cal. make) ed-Room Set of Furniture (Hand-made)
22.		Best Office Desk
22.		Best Spring Mattress
22.		Display of Window Shades and Fixtures
22.		Best Folding Iron Bedsteads
23.		o Best Billiard Table Cushions
23.	The J. M. Brunswick & Balke Co	Best Billard Tables for Parlor Use
24.		Patent Dust Pan and Crumb Receiver
24.	_	Best Display of Feather Dusters
24.		Best Carpet Sweeper
24.		Display of Paint and Varnish Brushes
25.		Best Saddle and Bridle
25.		Best Display of Whips
26. 26.		Best Display of Carriage Robes
20. 29.		Best Sheep-Skin Mats Best White Ostrich Feathers
31.		Stove Polish, Lubricants, Pencils, etc.
31.		Best Soda Water Generating Apparatus
-	The state of the s	- on redar, well denotating upparatus

Class	Name of Exhibitor.	· Article.
3 2.	I. L. Merrill	
33.		Best Pickles and Sauces
33.	Francis De Long	Best Cider and Cider Vinegar
36.	Geo. Spaulding & Co.	Best Specimens of Printing
37.	Mrs. A. O. Cook	Best Display of Hair Jewelry
38.	R. B. West	Improved Eye Glasses and Spectacles
39.	Hinkle & Handy	Best Assortment of Appliances for Deformities
39.	A. A. McLean	Best Truss (I. X. L. Elastic)
4 0.	Mrs. E. H. Hubbard	Best Display of Human Hair Goods
4 0.	Mrs. H. Stettin	Gold, Silk, and Cheneille Embroidery
40.	Mrs. A. N. Petersen	Best Display of Hand-Made Lace Work
40.		Pictures made of Human Hair
4 2.	Miss A. Hassler	Porcelain Painting
42.	Miss Eva McCormick.	Painting on Satin
4 3.	Henri Cousins	
4 3.		
45.	N. M. Klain	Best Stereoscopic Views
46.		Second Best Display of Foliage, Plants and Ferns
46.	Thomas Saywell	Second Best Display of Cut Flowers

DIPLOMAS.

1.		
1.	Llewellyn Steam Heater and	Condenser Co. Steam Heater and Condenser
1.	Weed & Kingwell	Eureka Tallow Lubricator
1.	Occidental Foundry	Best Grate Bar
3.	Edward W. Tifft	Designs for Display of Saws and Tools
3.	C. F. Marwedel	Display of Machinists' Small Tools
3.	Pacific Stove and Iron Works	sVise and Anvil Combined
3.	S. F. Tool Co	Best Drilling Machine
3.	J. A. Studebaker	Tailor's Square
4.	John Driver	Rotary Morticing Machine
4.	John Driver	
5.	Durkee & Moore	Wire Coiling Machine for Mattresses
5.	Louis L. Hall	Foot Power Scroll-saw in Operation
7.	Keystone Wringer Co	Best Wringer, "The Adams"
7.	Keystone Wringer Co	Best Crimping Machine
8.		Best Ironing Table
8.	H. N. Cook	Best Leather Fire Buckets and Hose Pipe
8.	W. T. Garratt	Improved Hydrant
9.		Model of a Ship in the Arctic Regions

PREMIUMS AWARDED.

Class	. Name of Exhibitor.	. Article.
9.	Louis Brell	
9.	R. Walkingshaw	Improved Ship's Port Window
10.	A. Chopi	Darning Machine
10.	E. C. Bodley	
11.	J. S. Woolsey	Cheese Vat and Steam Generator
11.	John Wilz	Best Pruning Shears
11.	M. C. Hawley	Best Lawn Mower
11.	M. C. Hawley & Co	Best Sulky Plow
11.	Geo. Bnll & Co	Best Side-Hill Plow
11.	Geo. Bull & Co	Best Plow for General Purposes
11.		Best Cider Mill
11.		Best Harrow and Cultivator
11.	A. La Jeunesse	,Improved Harrow
11.	M. C. Hawley & Co	Best Feed Mill, "The Challenge"
11.		. Creamer, Churner and Butter Worker
11.		.Display of Mower and Reaper Knives
12.		
13.		Best Flat-Iron Heater
13.		Best Coal Oil Stove
13.		Best Range, "The Winthrop"
13.		
13. 13.		
13. 14.		Best Display of Oil Stoves
14.		
14.		Best Stencil Plates
14.		
14.		Bronzed Hardware for Buildings
17.		Best Fire Brick
18.		Best Water Filter, "Little Giant"
19.		and Bracket done on Shaping Machine
19.		Scroll Sawing and Ornaments
19.		Best Weather Strips
19.	J. R. Drew	Stair Work
19.	J. W. Linney	Paper Files for Holding Papers
19.	Pacific Portable House Co	Portable Ventilated House
19.	G. Hansen	Step-ladder and Elevator Combined
19.	Mrs. Theresa Corlett	Ornamented Table Top
19.	Sanborn, Vail & Co	Cabinet Brackets
19.		Patent Window Screens
21.	•	Best Two-Wheeled Phaeton
21.	E. Whitmore	. Best Two-Wheeled Side-bar Phaeton
21.		Best Jump Cart
21.		Man-catcher for Rail Cars
22.	•	Best Library Furniture
22.	West Coast Furniture Co	Best Easy Chair

Clas	s. Name of Exhibitor.	Article.
22.	D. E. Guibord	Toilet Wardrobe for Ladies
22.		Kitchen Cabinet
22.		Best Assortment of School Furniture
22.	-	ss Co Best Metal Spring Bed-Bottom Rotating Book Case
22. 22.	,	Rustic Furniture
22.	4	Rolling Top Mattress
23.		alke CoBest Billiard Balls, Cues and Racks
24.		Best Brooms, California make
25.		Best Horse Collar
25.	•	New and Patented Button for Shoes
26.		Bros. & Co.)Best Straw Paper
26. 27.		Best Sample of Colored Furs Turkish Rugs
28.		and Business Suits for Gentlemen, and Cloth
28.		Machine-Made Button Holes
29.		The Griswold Corset
29.	-	Best Colored Ostrich Feathers
29.		
29. 31.		oston and California Dress Reform Garments
31.		Homeopathic Remedies and Books Dental Toilet Articles
31.		Furniture Polish
31.		
31.	Davis & Cooper	Oil Blacking
32.		Display of Copper Ore from Calaveras County
32.	<u> </u>	Compressed Shavings
32. 33.		
33.	<u> </u>	Plain and Fancy Candies
33.		.Assortment of Seeds and Mushroom Spawn
34.		Best California Brandy, 1880 and 1881
34.		Best White Wine, Rhenish Type
34.	-	Best Angelica Wine
34.		Best Black Wine
34. 35.		Best Blackberry Wine Peruvian Bitters
35.		Export Felsen Beer
35.	-	Falk's Milwaukee Beer
35.		Blackberry Cordial
36.	G. W. Hagans	Sheet Music, own Publication
38.		Best Display of Optical Goods
38.		
39. 39.		Best Electric Medical Belt
40.		Elastic Cork TrussPaper Sculpture
10.	TIME IN THE PROPERTY OF THE PARTY OF THE PAR	apor pourpure

Class	. Name of Exhibitor.	Article.
40.	Mrs. N. R. Fox	Embroidery Pictures
40.	Mrs. N. P. McPherson	Fern and Rock Pictures
40.		
40.		Skeleton-leaf Pictures
40.		Silk Bed Quilt, 6,000 pieces, Satin Cushion,
		700 pieces
40.	Mrs. Henrietta Lush	Bed Spread, Table Cover and Tidies
40.		
40.	· ·	Worsted Bureau Set and Crocheted Shawl
40.	Mrs. Amanda Dallas	Flower Stand of Immortelles
40.	Mrs. P. E. Kramer	
40.	Mrs. C. Seivers	Crocheted Tidies
40.	Mrs. Sarah Clark	
40.	Miss Bessie Taylor	Lace Toilet Set
40.	Mary M. Cherry	Worsted Wreath
40.	Miss Julia Durand	
40.	Emma J. Cook	Vase of Wax Flowers
40.	Mrs. Judith McGowan,	(aged 81) Sofa Cushion, Satchets, etc
40.		Point Lace Work
40.		Fancy Quilt and Fire Screen
4 0.		Lace Shams, Quilt and Dolls' Clothes
40.		Silk and Patchwork Quil
40.	•	
40.		Fine Embroidery
40.		Tissue Paper Work
40.		Bed Quilt
40.		Fancy-work and Miniature Furniture
40. 40.		Linen Embroidery
40.		
40.		
40.		Bed-spread, Shams and Stand Cover Hand-Knit Quilt
40.		Silk Quilt
40.		Pillow Shams
40.		Fancy Rug
40.		
40.		Embroidered Portiere Curtain
40.		DietzOriginal Floral Design
40.		Wax Tarltan Flowers and Autumn Leaves
40.		aged 82)
40.		Silk and Satin Table Cover
40.		Autumn Leaves and Preserved Flowers
40.		Turkish Rugs and Ottomans
43.		Modelling in Clay and Wax
44.		Best Steel Engraving
44.	_	Pen Drawing

Class	. Name of Exhibitor.	· Article.
44.	A. M. Easton	Pen Drawing
44.	Miss Lulu Bauer	Map Drawing
44.		Pen Drawing
44.		Business Penmanship
44.		Business Penmanship
44.		Fine Penmanship
44.		Business Penmanship
44.	S. G. Jordan	Illuminated Lettering
44.	W. H. Smyth	Mechanical Drawing
44.	California Commercial College	Pen Flourishing
44.	Heald's Business College	General Penmanship
44.	Leszinskys Business College	Business Forms
44.	Mrs. B. F. Ingals	Medley Pictures
45.	M. Kirkland Pho	tographic Views, Pennsylvania Scenery
46.	John PouyalT	hird Best Display of Flowers and Ferns
46.	Thomas Saywell	Best Display of Dahlias
47.	Mrs. M. C. McLellan	Prolific Pear Graft
47.	G. W. Hinclay	Mountain Peaches
47.	Munson & Grevies	Tuscan Wheat
47.	Eveleth & Nash	Exhibit of Mountain Peaches
47.	I. H. Thomas	Watermelon
47.	A. Crawford	Gravenstein Apples
47.	El Dorado Fruit Co	
47.	W. J. Hunt	Gravenstein Apples and Peaches

CASH PREMIUMS.

Paintings.—Class 41 and 42.

Name of Exhibitor.	Amount.
Thomas Hill	\$100 00
Wm. Keith	100 00
E. Narjot	. 60 00
Mrs. Helen Brodt	
Wm. Hahn	. 40 00
Theo. Wores	. 4 0 00
O. Kunath	. 40 00
H. Borneman	. 40 00
H. Raschen	. 40 00
Miss A. Hasler	. 35 00
H. Cleenewerk.	. 25 00
Albert Jenks	. 25 00
Carried forward	\$595.00

PREMIUMS AWARDED.

Name of Exhibitor.	Amount.
Brought forward \cdots	\$595 00
Nellie Hopps	25 00
Arthur Nahl	25 00
E. Tojetti	20 00
Mrs. Robert Beck	20 00
Miss E. Watson	20 00
Mrs. A. E. Hatch	20 00
L. P. Latimer	20 00
Nellie Burrell	15 00
Fred. Schafer	15 00
Cecil Romer	10 00
J. B. Wandesforde	
A. Joullin	10 00
Wilson Taylor	10 00
G. H. Burgess	10 00 10 00
R. D. Yelland	10 00
L. F. Adams.	10 00
Miss Eva McCormick	10 00
A. A. Cooper	10 00
S. W. Shaw	10 00
A. E. Rogers	10 00
Emily Ryder	10 00
Ettie Leaman	5 00
Mrs. C. E. Danielwitz	5 00
Mrs. W. H. Wiester	5 00
Mrs. J. H. Holt	5 00
Mrs. H. W. Bennett,	5 00
Frank Capp	5 00
J. Z. Dudley	5 00
Miss Ettie Seaton	5 00
Addie Ballou	5 00
Miss Annie Kane	2 50
Julia Schulte	2 50
Mrs. D. Bixler	2 50
Sarah Duprey	$\begin{array}{c}2\ 50\\2\ 50\end{array}$
Mary E. Home.	250
August Schoeft	$\frac{2}{2} \frac{50}{50}$
Miss M. Oviatt	$\frac{2}{2} \frac{50}{50}$
Amelia Simpson	2 50
Mrs. R. J. Fay	250
Miss Goldwater	2 50
Miss E. J. Morton	250
Carried forward \S	5980 00

Name of Exhibitor.	Amou	ınt.
Brought forward	\$980	00
Miss Dutton	2	50
Miss Sara H. Fernandez	2	50
Miss T. Franklin	2	50
Alice Levy	2	50
Mrs. M. H. Lovely	2	50
Mrs. W. R. Gallagher	2	50
Miss M. M. Shepherd	2	50
Miss Curry	2	50
	,000	00
FLOWERS AND PLANTS.—CLASS 46.		
E. Meyer	3120	00
Woodward's Gardens	89	00
John Pouyal	50	00
J. T. Murphy	40	00
T. Saywell	40	00
4	330	00
FRUIT.—CLASS 47.		
Sol. Runyon	\$75	00

REPORTS

-FROM-

STANDING COMMITTEES

—ОЕ ТНЕ—

INDUSTRIAL EXHIBITION.

HORTICULTURAL GARDEN.

By the recent completion of the New Exhibition Building, the permanent fittings, fixtures and improvements in this department, such as the building of the lake, and placing in position the necessary water and drain pipes, the building of the rockery, transplanting of plants, flowers, etc., and the garden soil, would seem to belong more properly to the first cost of the Exhibition Building, in which case the only expense incurred in this department is the wages of the gardener, Mr. Thos. Saywell, he having worked forty-seven days, at a salary of \$3 00 per day, making in all \$141 00.

Respectfully submitted,

A. W. STARBIRD, GEO. H. HOPPS J. R. WILCOX.

Committee.

TICKETS AND ADMISSIONS.

Your Committee on Tickets and Admission respectfully present the following report:

The Season Checks this year were ready for distribution earlier than usual, and a man was employed by your Committee to leave them for sale at most of the respectable stores in the business part of the city. The result was very satisfactory; but for a detailed statement of the number sold, and by whom, we refer you to the Treasurer's Report.

The Season Ticket used was the identifying Coupon Ticket, similar to the one in use during the Fifteenth Fair. This was found to work well, effectually preventing repeating and personating, being at the same time portable and easily worked by the door-keepers. The only objection to be urged against this form of ticket is its costliness. If any ticket can be contrived that will possess the advantages of the Coupon ticket at less cost, your Committee

would gladly see it adopted. During the extra week of the Fair, the coupon stubs being exhausted, the admissions were registered by punching the back of the coupon book in a different place for each day. It was found that this could be done easily and rapidly. A ticket like the Ferry Commutation Ticket, which registers admissions by punching round the margin, has been used by the management of the Authors' Carnival, and appeared to work well; but the Carnival Ticket only provided for twelve admissions, while the Fair Ticket must provide for sixty. The experiment is not decisive.

An attempt was made by your Committee to prevent the abuse of Press tickets, which has prevailed at former Fairs, by issuing identifying tickets to reporters. The difficulties in the way, however, were found to be insuperable, and after a brief trial the project was abandoned as impracticable, and the old form of Press tickets issued. Besides the Complimentary tickets to editors and proprietors, twenty-one Double Season tickets and one hundred and nineteen ordinary Reporters' tickets were issued to representatives of the Press.

The *Employees' Tickets* were issued by the Superintendent, under the direction of the Committee; the number so issued was 1,500. The admissions were registered by punching around the margin.

The Complimentary Tickets were, as usual, issued by the President only.

No Excursion Tickets were printed this year. The plan was adopted of giving admission at half rates only, in the case of bone fide excursions under the management of the Railroad Companies themselves, who were required to guarantee at least \$100 to the funds of the Fair, and to print the Admission Ticket to the Fair as a coupon to their own ticket, redeeming them on presentation. The results of this policy were excellent. Three excursions were undertaken in this manner, one by the Southern Pacific Railroad from San Jose, the receipts from which were \$252 10; one by the South Pacific Coast Railroad from Santa Cruz and way stations, from which the receipts were \$252; and another by the S. F. and North Pacific Railroad from Cloverdale and way stations, from which the receipts were \$197; making the total receipts from the three excursions \$701 10. Your Committee heartily recommends this as the most satisfactory method of getting up excursions.

The expenses were as follows:

5000 Double Season Checks	\$ 15	00		
1500 Single Season Checks	. 5	00		
1000 Children's Season Checks	3	00		
1000 Apprentices' Season Checks	3	00		
			\$ 26	00
4000 Double Season Tickets-Coupon	\$160	00		
1500 Single Season Tickets—Coupon	60	00		
1000 Children's Season Tickets—Coupon	40	00		
1000 Children's Season Tickets—Coupon				

Brought forward			\$326	00
5000 Adults' Single Admission Tickets—Card				
2000 Children's Single Admission Tickets—Card	6	00		
400 Press Tickets—Card	4	50		
1500 Employees' Tickets—Card	4	50		
500 Complimentary Tickets—Card	. 8	00		
50 Keys to Tickets	. 1	50		
2000 Single Admission Tickets (extra, not used)	8	00		
Printing on back of 8500 Tickets	. 8	50		
Printing endorsement on 16,927 Tickets	. 12	7 5		
			\$ 68	7 5
		•	\$394	7 5
Doorkeepers: Sergt. Harman	. \$125	00		
2 Regular Doorkeepers, 35 days	. 210	00		
2 Extra Doorkeepers	. 54	00		
			\$389	00
Total		• • •	\$783	75

In conclusion, your Committee gives hearty thanks to those members of the Board by whom assistance was cheerfully rendered during the Fair.

All of which is respectfully submitted,

EDWIN FRETWELL, C. F. BASSETT, DAVID KERR,

Committee.

LOCATION.

Your Committee, to whom was referred the locating of the different industries applying for space in the new Mechanics' Pavilion, beg leave to report as follows:

The Pavilion having been divided into two parts, the portion for heavy machinery was partitioned off from the main Pavilion, the latter being reserved and set apart for other exhibits. The plan of the interior of the Exhibition Building adopted by your Committee was placed in the hands of the Superintendent, with power to modify according to the wants of exhibitors, or when in his judgment he deemed the change desirable to meet the wants of the other interests connected. These, with your Committee, find that Mr. Gilmore, the Superintendent, has ably carried out their instructions, with but small change or modification from the original plan, he having done all in his power to meet the requirements of the exhibitors, and satisfy all. There has been no expense incurred by your Committee except for labor, and that item has been always included in the pay-roll of the employees.

Respectfully submitted,

D. A. MacDonald, George Spaulding, A. R. Wells.

Committee.

MUSIC AND DECORATIONS.

Your Committee on Music and Decoration would report that the Musical part of the Exhibition has been this year much more satisfactory to the public than previous ones, owing to the Machinery hall having been partitioned off from the main building, thereby allowing listeners to hear the harmony without a mixture of sound produced by pounding Quartz Mills and rattling wheels.

The contract for the Music was awarded to Schultz and Ballenberg, who gave the utmost satisfaction. This Orchestra was composed of the best musicians attainable in the city, among them being some noted soloists whose pieces were usually most heartily encored. The opening overture was composed and dedicated to the Board of Managers by Mr. Charles Schultz, the Conductor. The music has now become one of the chief attractions of our Fairs, and is expected by the patrons as much as fine exhibits. The cost of this department was \$2,756.

The Decorations this year have not been very expensive or elaborate, the new Pavilion in part compensating for the lack of bunting and flags usually displayed. The principal embellishment was a stripe of red, six feet wide, running entirely around the building above the gallery, and two large fan lights, also red, over the arched windows at each end of the Pavilion. The effect was to harmonize and relieve the eye from the uniform whiteness of the interior.

The tables in the gallery and garden were covered with cloth of uniform color, making them appear much better than formerly. The entire cost of decorating this year has been but \$118 05.

Respectfully submitted,

J. A. BAUER, G. H. HOPPS, A. W. STARBIRD,

Committee.

PRIVILEGES.

WE, the Committee on Privileges, are gratified in being able this evening to present you with a report showing a decided increase of receipts over last year, notwithstanding the smoking room was omitted from the list, and also to state positively, that all holders, without exception, were perfectly satisfied.

The question of the advisability of granting Privileges of sale for anything except refreshments, is one not easily settled, and of which there is much difference of opinion.

On one side is the fact, that it is a rule or custom in all the large exhibitions held in the Uni'ed States, to dispose of to the highest bidder, or at a fixed sum, various exclusive privileges of sale of articles possessing novelty or attractiveness to the general public, as it is claimed these fairs are where they are first exhibited to the public, and the only place where visitors could purchase an article they greatly desired, and would feel disappointed if not permitted to do so.

On the other hand, the remark has been heard that fairs are gradually being turned into a great bazaar, and the proper aim and object of an Industrial Exhibition lost sight of, and people importuned and annoyed by persistent invitations to purchase articles they do not want.

In awarding our contracts for Privileges, it was distinctly understood that no soliciting of patronage could be done, except from the stand of the holder, and then only to persons voluntarily seeking information.

In our own case we do not think it has been detrimental, and need never be, if properly conducted under strict rules and regulations.

The question of a side show with entrance from the Pavilion, engaged the attention of the Committee for some time, but which was finally allowed with satisfaction to the public, and we trust to the Board of Managers also.

The following Privileges were sold:

The following Privileges were sold:					
Ice Cream, Kate S. Hart\$	900	00			
inting, George Spaulding & Co					
Soda, Geo. C. Thompson					
Cider, Geo. C. Thompson					
Lunch Counter, D. S. Ciphers					
Pop Corn, D. S. Ciphers					
Candy, Geo. Haas					
Fruit, Mrs. J. Muirhead					
Hair Tonic, Mrs. Reeves	25	00			
Perfumery, G. G. Burnett & Co. Mrs. Whitney	25				
Perfumery, {G. G. Burnett & Co	25				
	10				
Oriental Articles	25 50				
Waffle Stand, J. Lantheaume					
Automatic City, Col. Gildersleeve	700				
Japanese Goods, { Ichi Ban	25 25				
Soap, Columbia Soap Works					
Card Writing, E. A. Goddard					
Cement, W. Flannery					
Canes, J. H. Kruger.					
Music, G. T. Hagans					
Stamps, Richardson Bros.	25	00			
Dental Preparations, A. F. Merriman & Son					
Hair Remedy, A. F. Forbes					
Toilet Articles, Stoddart Bros					
Microscopes, S. M. Armstrong					
Fruit Salt, H. B. Slaven					
as Stoves, etc., Central Gas Light Co					
	···				

Respectfully submitted,

Total,

David Kerr, C. Waterhouse, D. A. MacDonald,

Committee.

GAS AND WATER.

Your Committee on Gas and Water would report that all matters pertaining to laying gas-pipe and putting in the fixtures used at the new Pavilion properly belongs in the report to the Mechanics' Institute, and will not be mentioned here. Regarding the present Fair, we are pleased to state that the cost of Gas has been very materially reduced from what it has been at former fairs, owing to the strong competition of the Central Gas Light Company, whose Gas was used, and gave good satisfaction, the light at all times coming up to the official standard candle power, and of the best illuminating quality.

This Company, through its gentlemanly Superintendent, Mr. Condict and efficient employees, did everything possible to save expense and labor to the Institute, and were willing at all times to comply with the wishes of the Managers. Their exhibit of Gas and Gas Apparatus was a very attractive one, showing the many and useful purposes, besides lighting, in which Gas can be economically used.

The Electric Light was only used to illuminate the front of the building outside, where, as usual, it gave good satisfaction; in fact, it would be hard now to dispense with the light in such places, where crowded cars are constantly arriving and departing.

The Fair remained open thirty-five days, the same as last year.

The amount of Gas consumed last year was 1,167,300 cubic feet, costing, at \$2 50 per M., \$2,918 35. This year there was consumed 790,800 cubic feet, costing at \$1 80 per M., \$1,423 45, a saving of \$1,494 90 as compared with last year. The Electric Light last year cost \$315; this year \$156, saving \$159, and showing a saving in cost of light of \$1,653 90. The average cost of Gas per day has been \$40 67; even the comparatively small cost of Gas used this year was in excess of what it should be in the future, as the arrangement of the bnrners in the Art Galleries was such as to give the least possible effect where most needed; a defect that could not well be remedied during the Exhibition, but should be before the next.

Whitening the interior has also been of service in increasing the light, rendering the Pavilion much more brilliant at night than heretofore.

Previous to the opening of the Exhibition, a majority of the Trustees of the Institute concluded that it was advisable to dig an artesian well on the premises, thereby expecting to obtain water to supply the Pavilion. To that end, a well was sunk 201 feet, but not in time to be available, and the Spring Valley Water Co. supplied the water for all purposes at a cost of \$100 per week.

The expenses in our department has been

The expenses in our department has been
For Lighting \$1,606 45
" Water 583 35
Total\$2,189 80
Less amount received from Exhibitors for Gas used 117 50
Total\$2,072 30
Respectfully submitted,

J. R. WILCOX,
JAMES SPIERS.
C. WATERHOUSE,
Committee.

PRINTING AND ADVERTISING.

Your Committee on Printing and Advertising would report that the expenses of their department for this Fair have been as follows:

Advertising	*	 	\$1	1,219 20
Printing		 	• • • • • • • • • • • •	924 65
Stationery	• • • • • • • • • • • • •	 • • • • • • • • • • • • •	• • • • • • • • • • • •	142 53
			_	

Total.....\$2,286 38

An itemized account will be given in the Financial Report of the Exhibition. There is much to say and a wide difference of opinion as regards the amount of advertising necessary to secure the greatest amount of good to the exhibitors. We have been as liberal as we deemed advisable, and believe the money so paid was well expended. The press, without exception, has been very kind this year by giving to the public full accounts of the Exhibition. The thanks of the Managers are due to the many city and interior papers for their liberal and flattering notices.

GEORGE SPAULDING, EDWIN FRETWELL, C. F. BASSETT,

Committee.

RULES, REGULATIONS AND AWARDS.

Your Committee on Rules, Regulations and Awards would report that in accordance with instructions from the Board, an invitation was extended to artists to submit designs for a new Medal and Diploma, twenty-five dollars being offered for the one accepted for the Medal. Several were received, and, after due consideration, the design submitted by Wenzel, Rothchild & Hadenfeldt was accepted. The Diploma was awarded to Britton & Rey. The engraving of the die was submitted to A. Kuner, who has performed his labor to the satisfaction of the Committee—the Medal being a creditable and artistic piece of work, and will, no doubt, be greatly appreciated by those receiving them. The manufacture of the Medals by Wenzel & Co. is rapidly progressing, and it is expected they will be ready in a short time. The Diplomas are printed, nearly all engrossed, and ready for delivery. The medal is one-quarter of an inch larger than the old one, but, being better engraved, can be made for about the same cost as the last. Appended is the cost of the premiums this year:

J Comment of the comm
Premiums—Britton & Rey, design for 200 diplomas \$ 100 00
Cash awards for flowers 330 00
Cash awards for fruit
Cash awards for paintings
Kuner, A., engraving die for medal 250 00
Muhs, A., 240 boxes for medal
Thors, S., filling out diplomas
Wenzel, Rothchild & Hadenfelt, new design,
29 gold, 136 silver, 82 bronze medals, and
engraving same
3 3

\$3,896 80

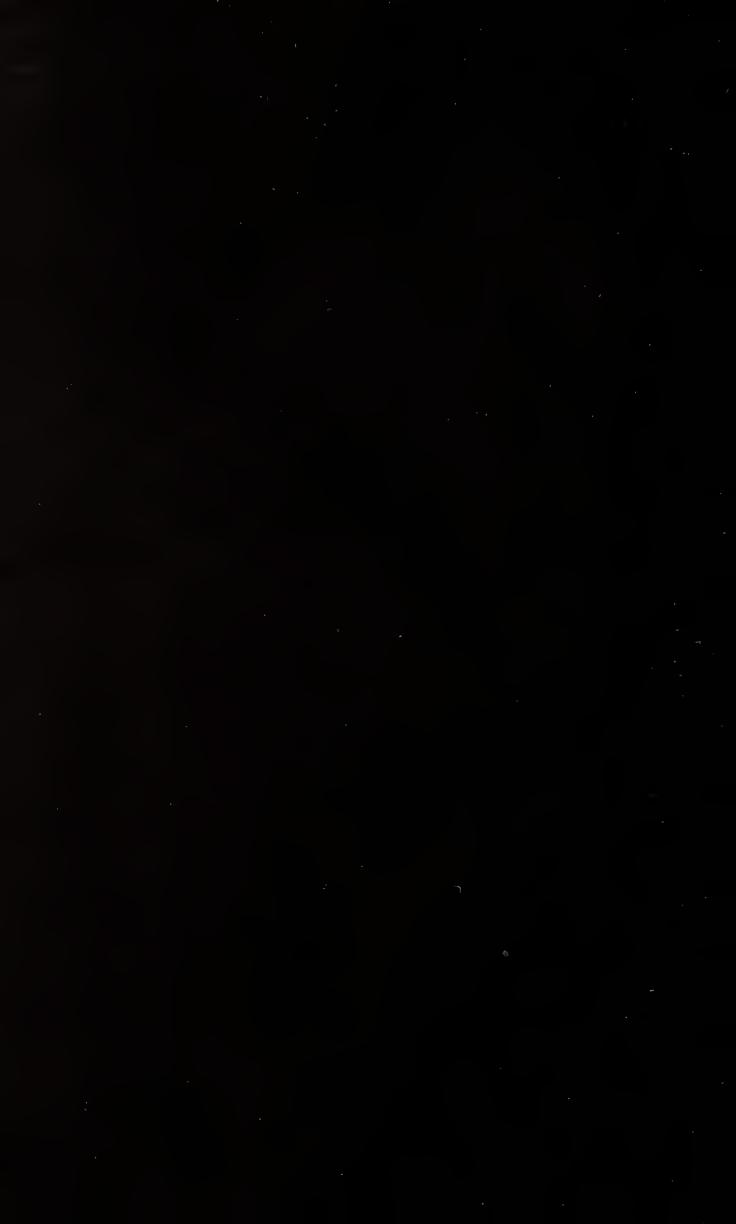
RICHARD GRAY, A. W. STARBIRD, JAMES SPIERS,

Committee.

November 9th, 1882.







DATE DUE

Mechanics' Institut REF (San Francisco, 606 Calif.) M48r Report of the 17th 1882

Industrial Exhibiti

Archives



REF Mechanics' Institut 606 (San Francisco, M48r Calif.) 17th Report of the 1882 Industrial Exhibiti

Archives

